FUNAI

SERVICE MANUAL

Sec. 1: Main Section
- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's
- Exploded views
- Parts List

Sec. 2: Deck Mechanism Section
- Standard Maintenance
- Alignment for Mechanism
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DVD PLAYER & VIDEO CASSETTE RECORDER

DDVR-5505V

DDVR-5805

VHS
PAL

MAIN SECTION

DVD PLAYER &
VIDEO CASSETTE RECORDER

DDVR-5505V/DDVR-5805

Sec. 1: Main Section

- **Specifications**
- **Preparation for Servicing**
- **Adjustment Procedures**
- **Schematic Diagrams**
- **CBA's**
- **Exploded Views**
- **Parts List**

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SPECIFICATIONS

< VCR Section >

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	SP Mode
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		SP Mode, W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5. Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6. Resolution (PB)	Line	230	245		SP Mode
2. Servo					
2-1. Jitter Low	µsec		0.07	0.12	SP Mode
2-2. Wow & Flutter	%		0.3	0.5	SP Mode
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-4	-3	SP Mode
3-2. Output (R/P)	dBV	-9	-4	-1.5	SP Mode
3-3. S/N (R/P)	dB	36	41		SP Mode
3-4. Distortion (R/P)	%		1.0	4.0	SP Mode
3-5. Freq. resp (R/P) at 200Hz	dB	-6	-2		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-8	-2		SP Mode
4. Tuner					
4-1. Video output	Vp-p	0.8	1.0	1.2	E-E Mode
4-2. Video S/N	dB	39	44		E-E Mode
4-3. Audio output	dB	-10	-6	-2	E-E Mode
4-4. Audio S/N	dB	40	46		E-E Mode
5. Hi-Fi Audio [DDVR-5505V]					
5-1. Output	dBV	-12	-9	-4	SP Mode
5-2. Dynamic Range	dB	70	85		SP Mode
5-3. Freq. resp (6dB B.W)	Hz		20 ~ 20K		SP Mode

Note: Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

< DVD Section >

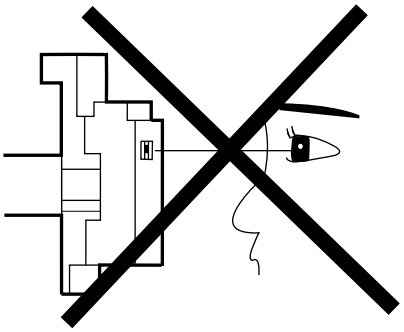
ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1. Video Output	75 ohm load	Vpp	1.0	± 0.1
2. Optical Digital Out		dBm	-18	
3. Audio (PCM)				
3-1. Output Level	1 kHz 0 dB	Vrms	2.0	
3-2. S/N		dB	90	
3-3. Freq. Response				
DVD	fs = 48 kHz ± 0.5dB	Hz	20~22 k	
CD	fs = 44.1 kHz ± 0.5dB	Hz	20~20 k	
3-4. THD+N				
DVD	1 kHz 0dB	%	0.01	
CD	1 kHz 0dB	%	0.01	

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : 220 - 240 V ~ 50 Hz
3. Load imp. : 100 k ohm
4. Ambient temperature : 5 °C ~ 40 °C

LASER BEAM SAFETY PRECAUTIONS

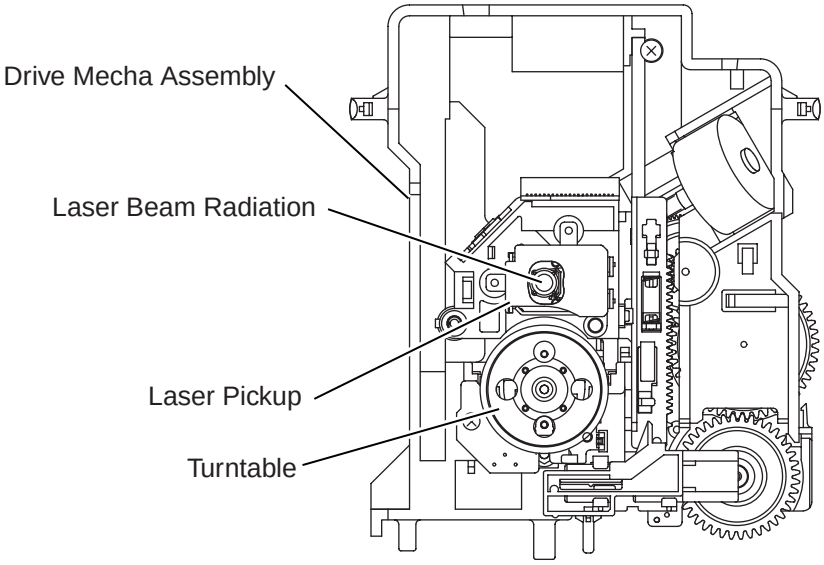
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced**.**

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety. Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1)Wires covered with PVC tubing

2)Double insulated wires

3)High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1)Insulation tape

2)PVC tubing

3)Spacers

4)Insulators for transistors

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

G. Check that replaced wires do not contact sharp edges or pointed parts.

H. When a power cord has been replaced, check that 5 - 6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. Crimp type wire connector
The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.
Replacement procedure

1)Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not re-use a connector. (Discard it.)

2)Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

3)Align the lengths of the wires to be connected. Insert the wires fully into the connector.

4)Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.

L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	≥ 3 mm(d) ≥ 6 mm(d')

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

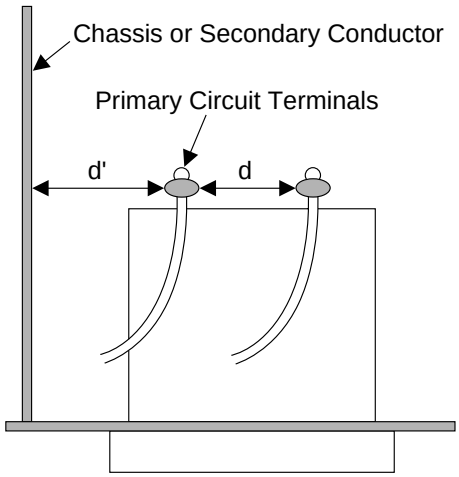


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON) :

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.

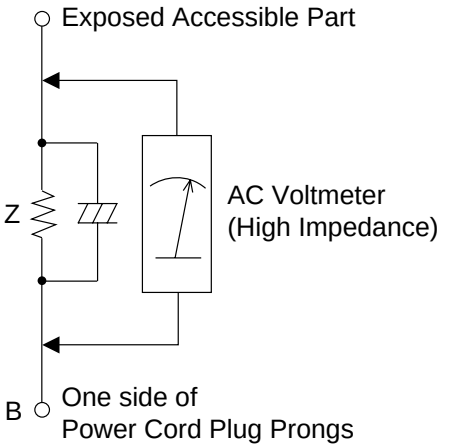


Fig. 2

Table 2: Leakage current ratings for selected areas

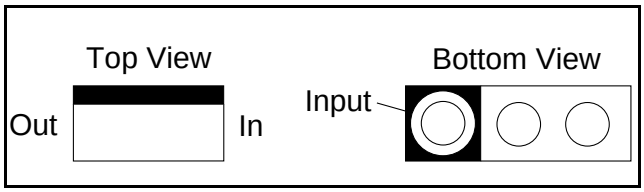
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

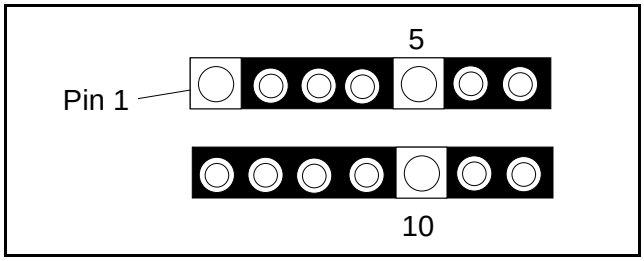
STANDARD NOTES FOR SERVICING

Circuit Board Indications

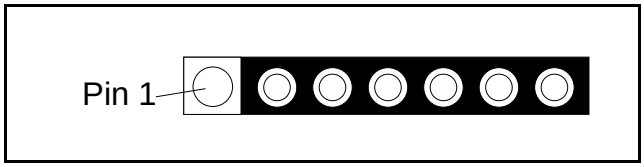
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

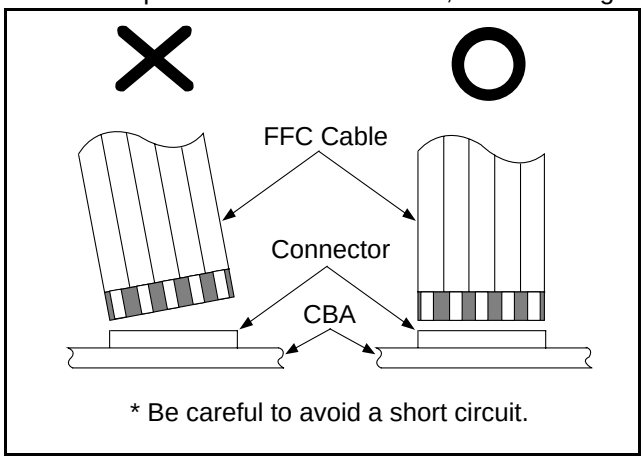


3. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



* Be careful to avoid a short circuit.

Pb (Lead) Free Solder

When soldering, be sure to use the Pb free solder.

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:.

(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

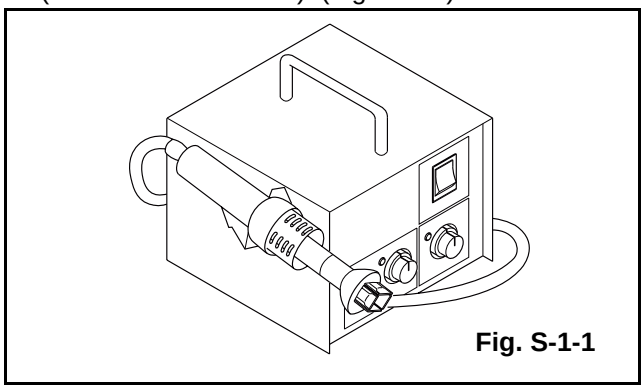


Fig. S-1-1

(2) Remove the flat pack-IC with tweezers while applying the hot air.

(3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

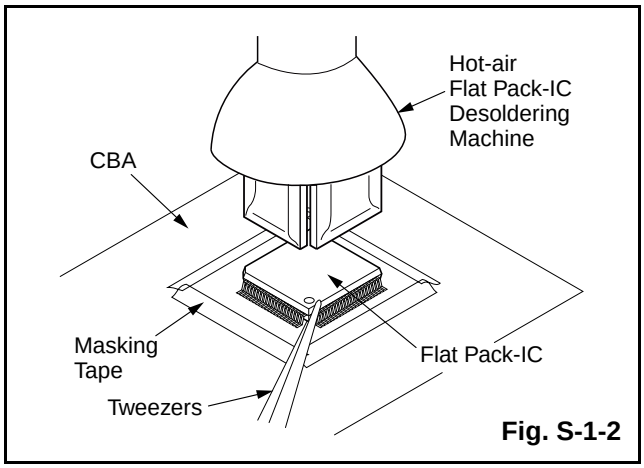


Fig. S-1-2

With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

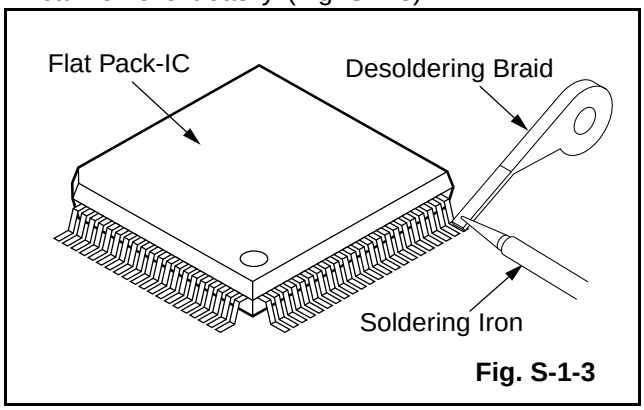


Fig. S-1-3

(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

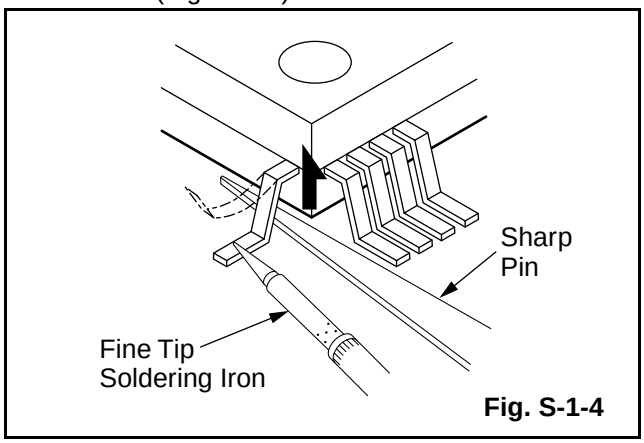


Fig. S-1-4

(3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

(2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.

(3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5

(4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)

(5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

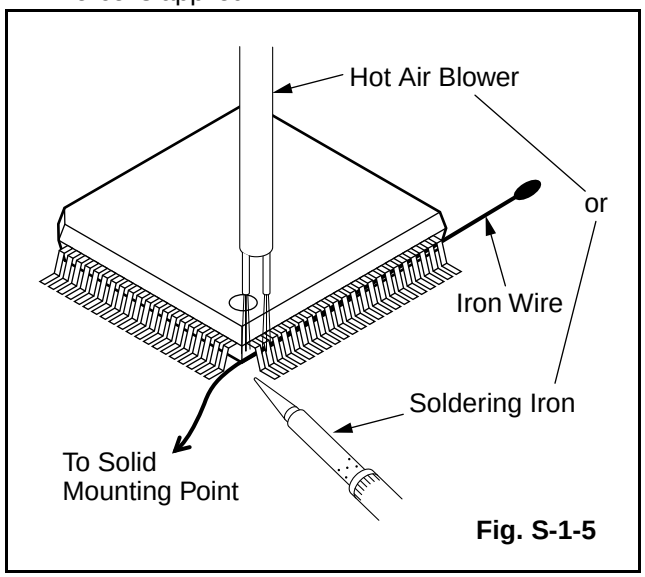


Fig. S-1-5

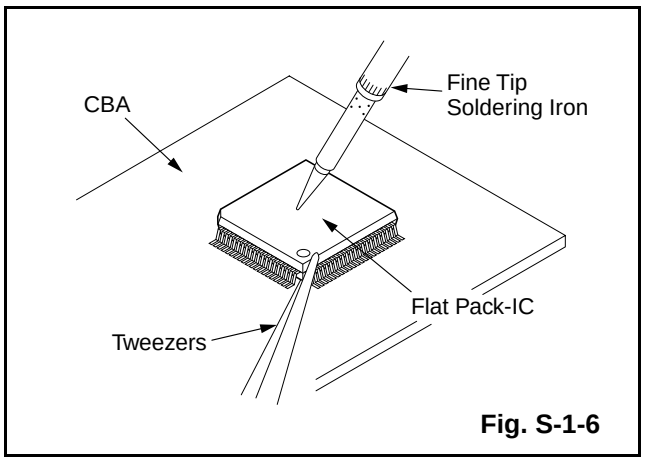


Fig. S-1-6

2. Installation

(1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.

(2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)

(3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

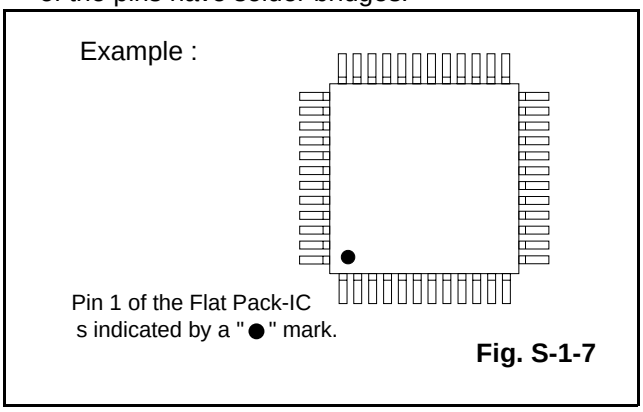


Fig. S-1-7

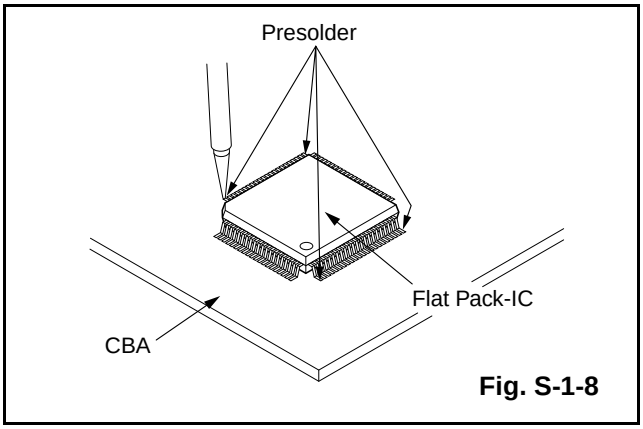


Fig. S-1-8

Instructions for Handling Semi-conductors

Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electro-static charge during unpacking or repair work.

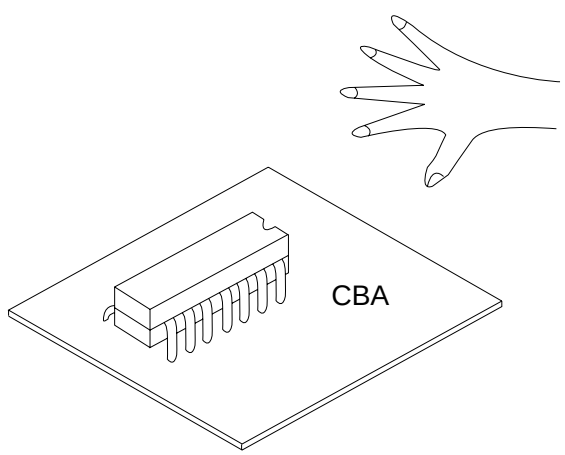
1. Ground for Human Body

Be sure to wear a grounding band (1MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

(1) Be sure to place a conductive sheet or copper plate with proper grounding (1MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

< Incorrect >



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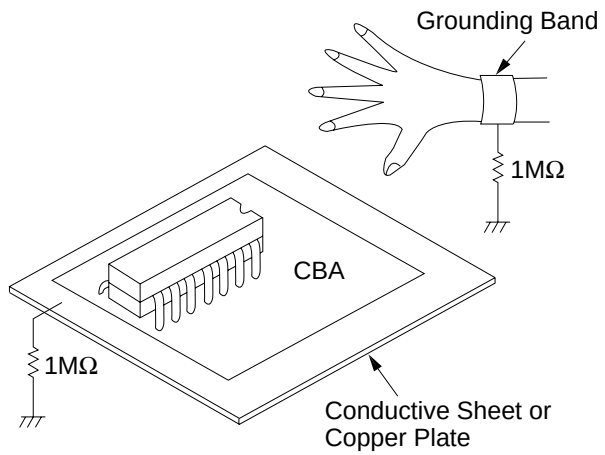


PREPARATION FOR SERVICING

How to Enter the Service Mode

About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP501 (S-INH) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

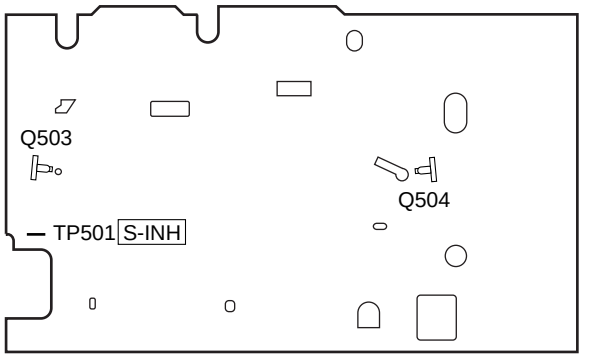
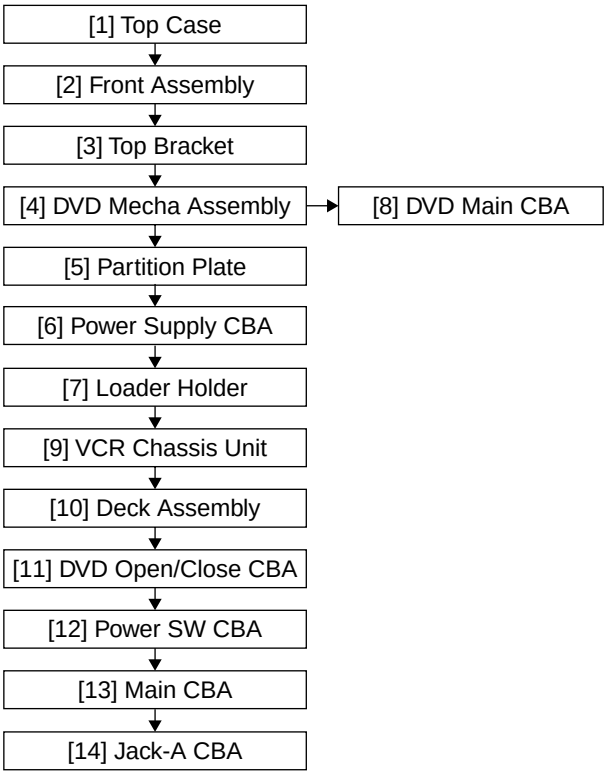


Fig. 1

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Case	D1	8(S-1)	-
[2]	Front Assembly	D2	*3(L-1), *3(L-2)	1 1-1 1-2
[3]	Top Bracket	D2	3(S-2)	-
[4]	DVD Mecha Assembly	D3	4(S-3), *CN401, *CN601	-
[5]	Partition Plate	D3	(S-4)	-
[6]	Power Suppy CBA	D3	2(S-5), CN501	-
[7]	Loader Holder	D3	2(S-6)	-
[8]	DVD Main CBA	D4	2(S-7), *CN201, *CN301	2 2-1 2-2 3
[9]	VCR Chassis Unit	D5	5(S-8), 2(S-9), 2(S-10), (L-3)	-
[10]	Deck Assembly	D6	Desolder, 2(S-11), (S-12)	4,5
[11]	DVD Open/ Close CBA	D6	Desolder	-
[12]	Power SW CBA	D6	Desolder	-
[13]	Main CBA	D6	----------	-
[14]	Jack-A CBA	D6	Desolder, 2(S-13)	-
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

Note:

(1): Identification (location) No. of parts in the figures

(2): Name of the part

(3): Figure Number for reference

(4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P=Spring, L=Locking Tab, S=Screw, CN=Connector
*=Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5): Refer to “Reference Notes.”

Reference Notes

CAUTION 1: Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.

1-1. Release three Locking Tabs (L-1).

1-2. Release three Locking Tabs (L-2), then remove the Front Assembly.

CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc, during unpacking or repair work.

To avoid damage of pickup follow next procedures.

2-1. Disconnect Connector (CN301). Remove two Screws (S-7) and lift the DVD Main CBA Unit. (Fig. D4)

2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN201) from it. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. D4)

CAUTION 3: When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D4)

4. When reassembling, solder wire jumpers as shown in Fig. D6.

5. Before installing the Deck Assembly, be sure to place the pin of LD-SW on Main CBA as shown in Fig. D6. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D6.

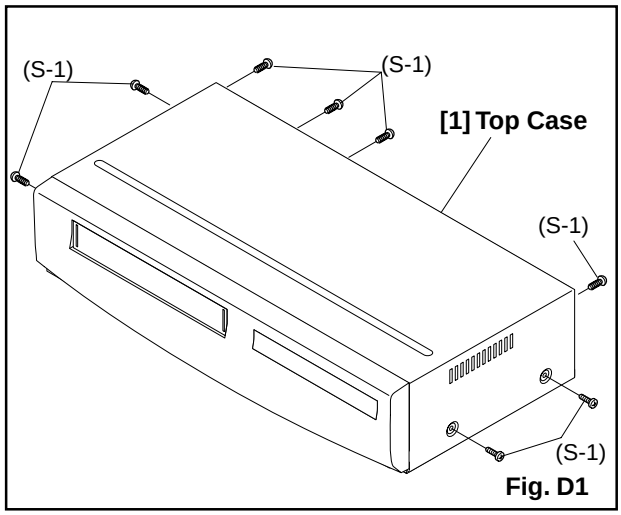


Fig. D1

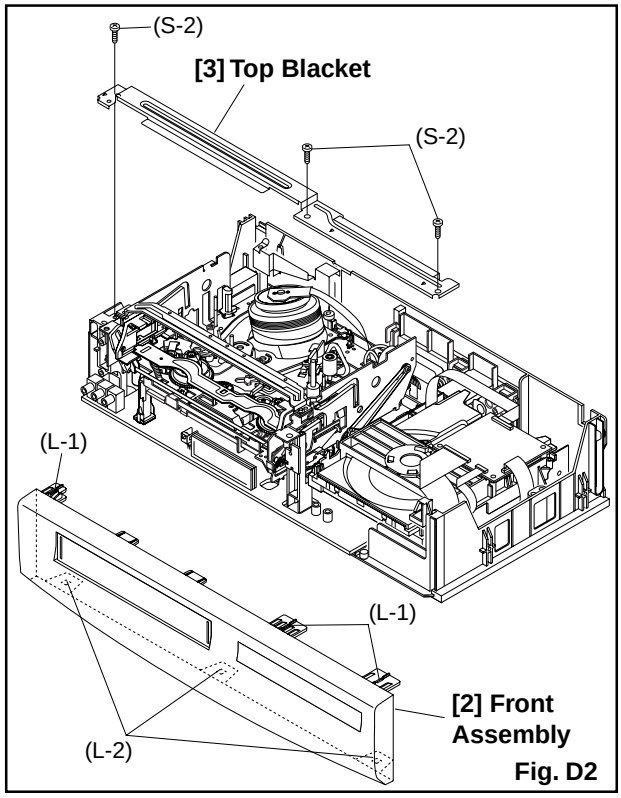


Fig. D2

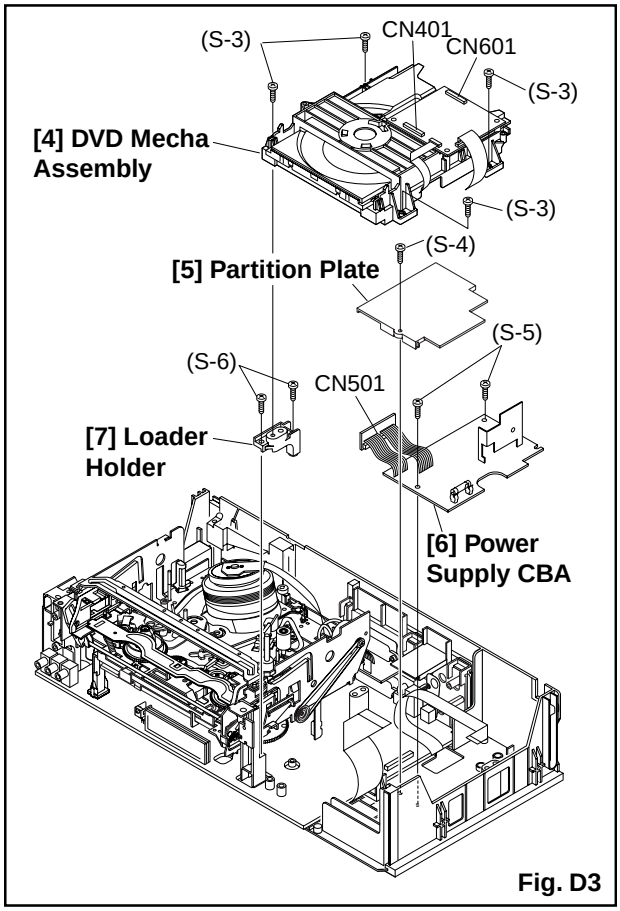


Fig. D3

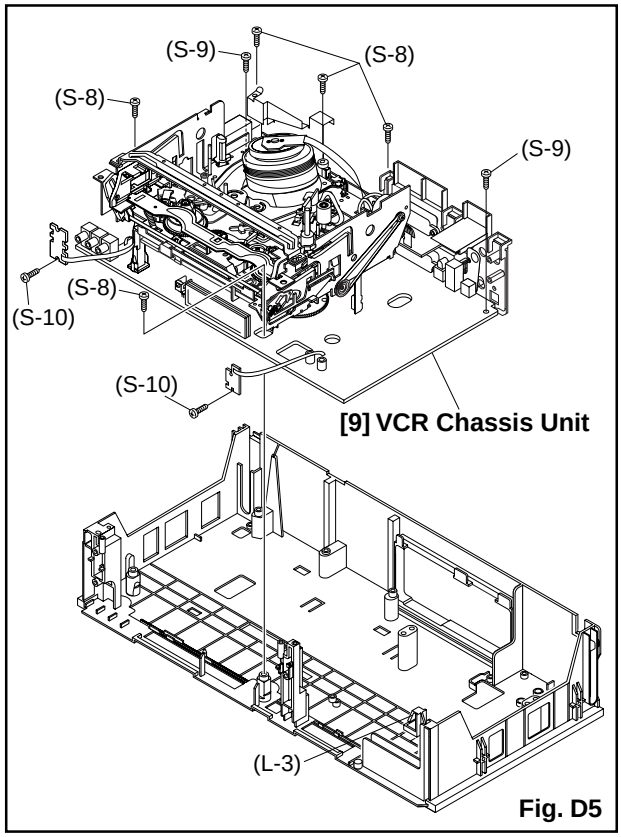


Fig. D5

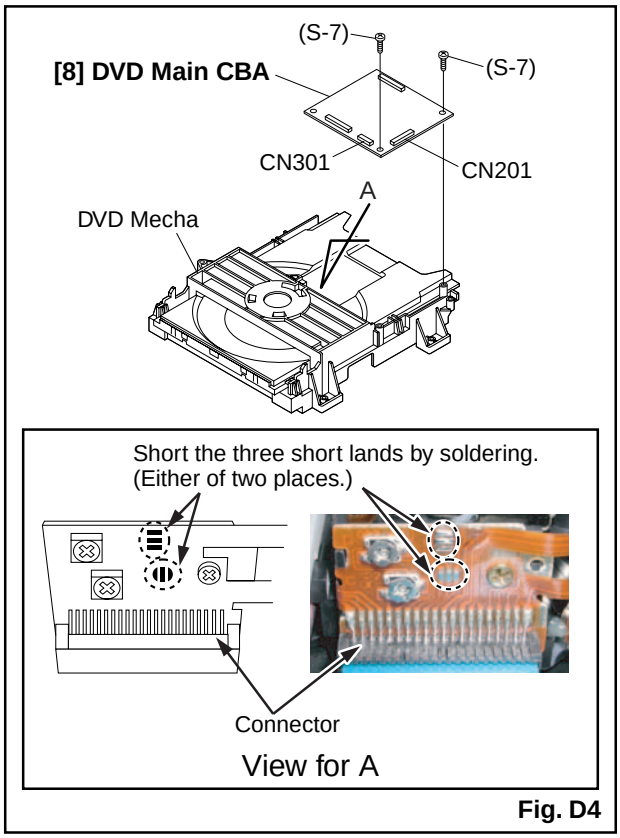
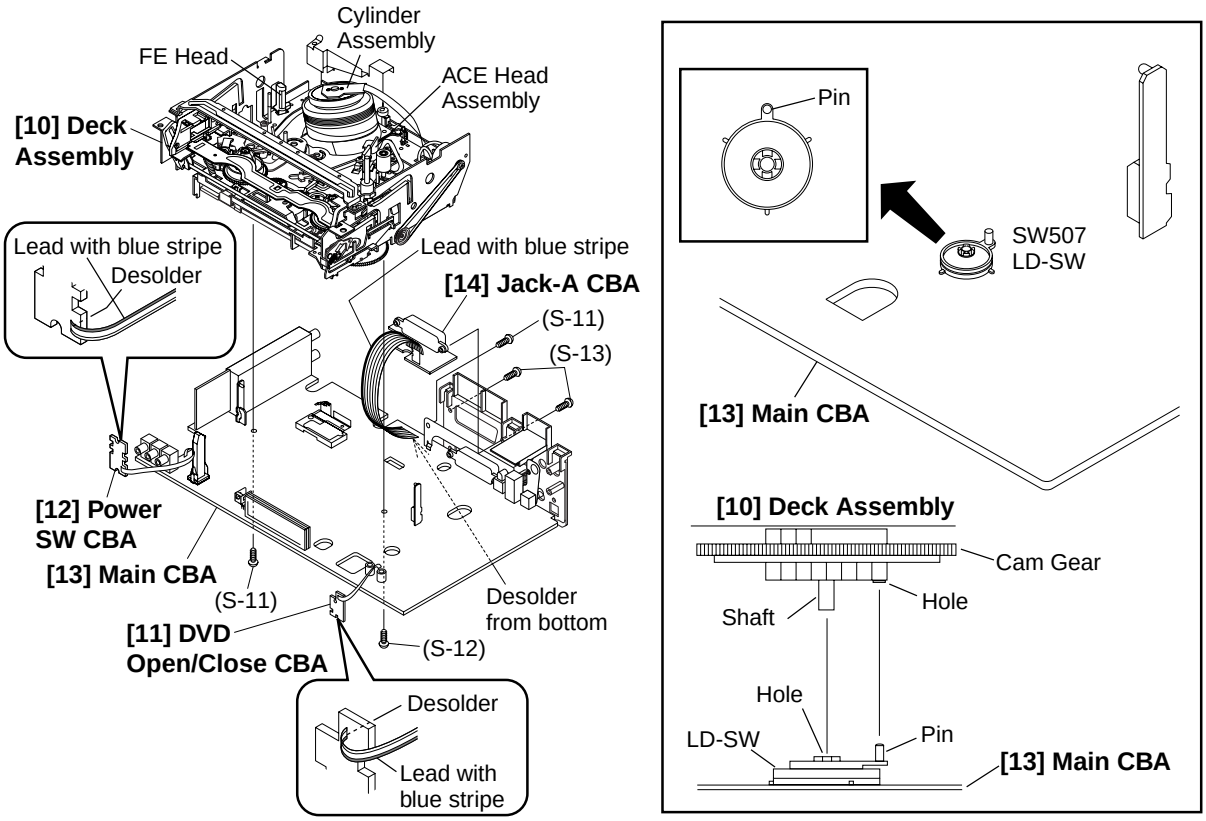
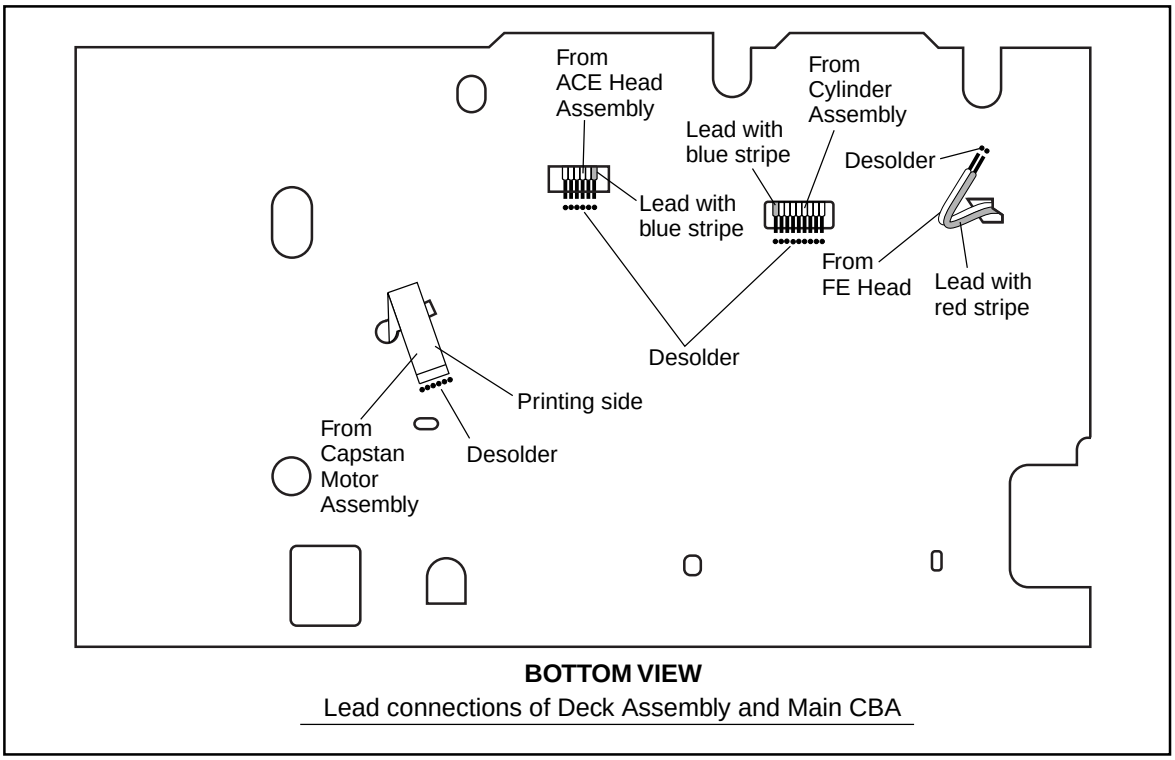


Fig. D4





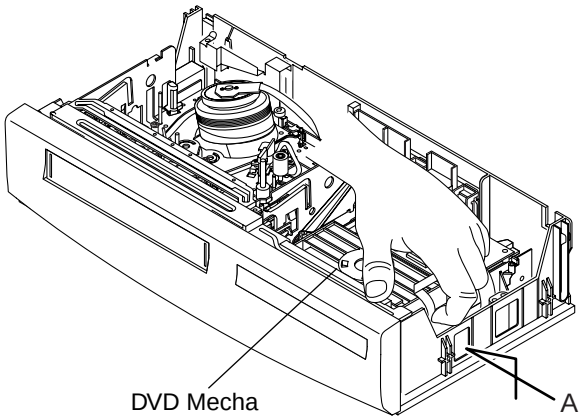
BOTTOM VIEW

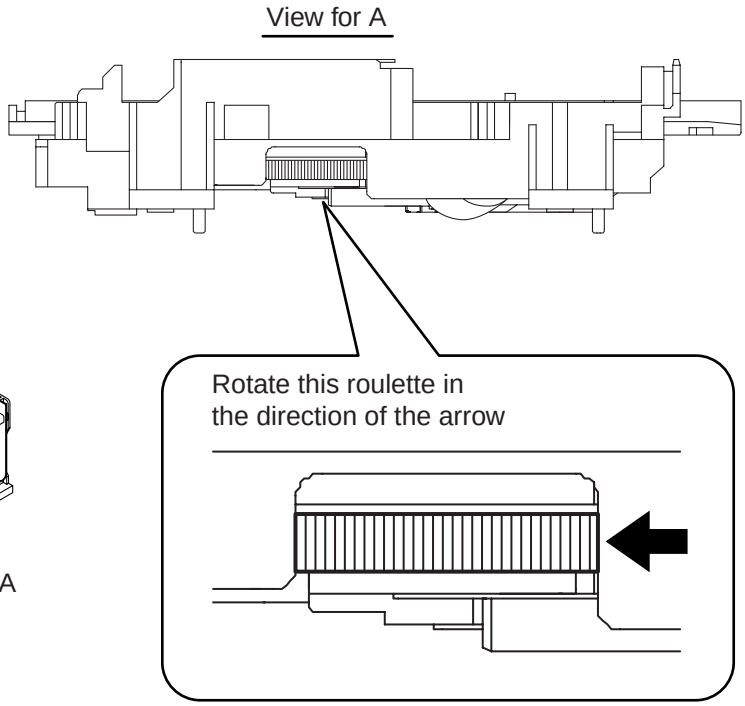
Lead connections of Deck Assembly and Main CBA

Fig. D6

HOW TO EJECT MANUALLY

1. Remove the Top Case.
2. Rotate the roulette in the direction of the arrow as shown below.
3. Pull the tray slowly with a hand.





ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly."

NOTE:

1. Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either "CHANNEL ▼" or "CHANNEL ▲" button on the front panel first, then the "PLAY" button on the front panel.

Test Equipment Required

1. Oscilloscope: Dual-trace with 10:1 probe,
   V-Range: 0.001~50V/Div.,
   F-Range: DC~AC-20MHz
2. Alignment Tape (FL6A)

Head Switching Position Adjustment

Purpose:

To determine the Head Switching position during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Test point	Adj.Point	Mode	Input
TP751(V-OUT) TP504(RF-SW) GND	VR501 (Switching Point) (MAIN CBA)	PLAY (SP)	-----
Tape	**Measurement Equipment**	**Spec.**	
FL6A	Oscilloscope	6.5H±1H (416µs±64µs)	

Connections of Measurement Equipment

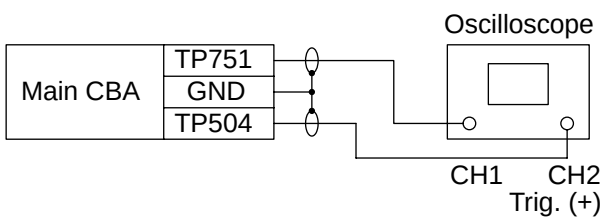
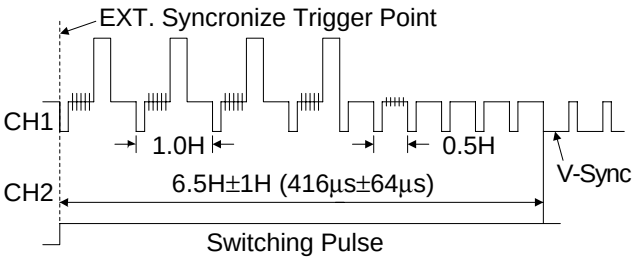


Figure 1



Reference Notes:

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the 6.5H±1H (416µs±64µs) delayed position from the rising edge of the CH2 head switching pulse waveform.

FIRMWARE RENEWAL MODE

1. Turn the power on and remove the disc on the tray.
2. To put the DVD player into version up mode, press [9], [8], [7], [6], and [SEARCH MODE] buttons on the remote control unit in that order. The tray will open automatically.
   Fig. a appears on the screen and Fig. b appears on the VFD.

"*******" differ depending on the models.

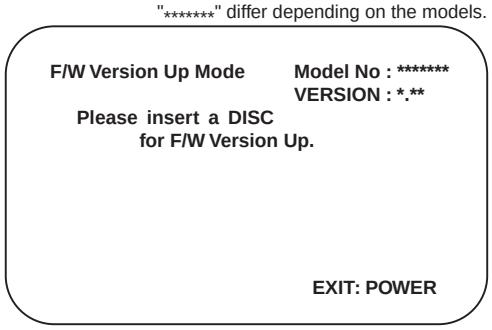


Fig. a Version Up Mode Screen

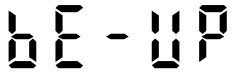


Fig. b VFD in Version Up Mode

   The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.
3. Load the disc for version up.
4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD. If you enter the F/W for different models, “Disc Error” will appear on the screen, then the tray will open automatically.

"*******" differ depending on the models.

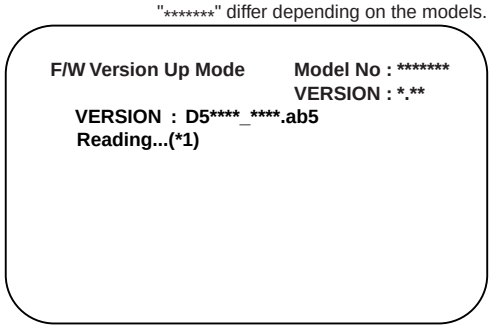


Fig. c Programming Mode Screen

Fig. d VFD in Programming Mode (Example)

The appearance shown in (*1) of Fig. c is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

5. After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*2) of Fig. e appears on the VFD. (Fig. f)

"*******" differ depending on the models.

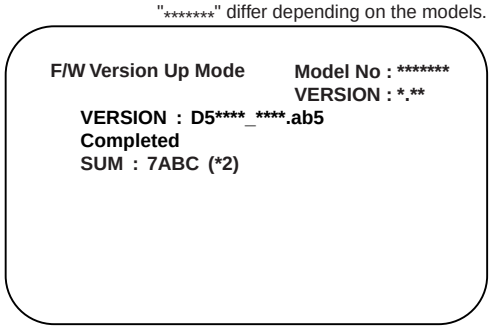


Fig. e Completed Program Mode Screen

Fig. f VFD upon Finishing the Programming Mode (Example)

   At this time, no buttons are available.
6. Remove the disc on the tray.
7. Unplug the AC cord from the AC outlet. Then plug it again.
8. Turn the power on by pressing the [FUNCTION] button and the tray will close.
9. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
   Fig. g appears on the screen.

"*******" differ depending on the models.

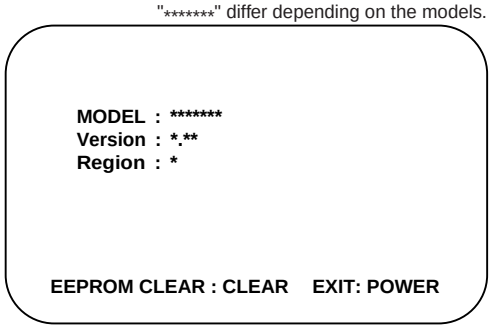


Fig. g

10. Press [CLEAR] button on the remote control unit.
    Fig. h appears on the screen.

"*******" differ depending on the models.

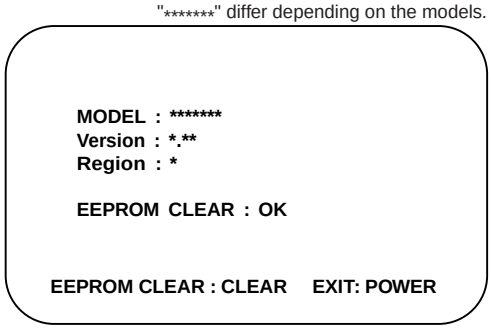
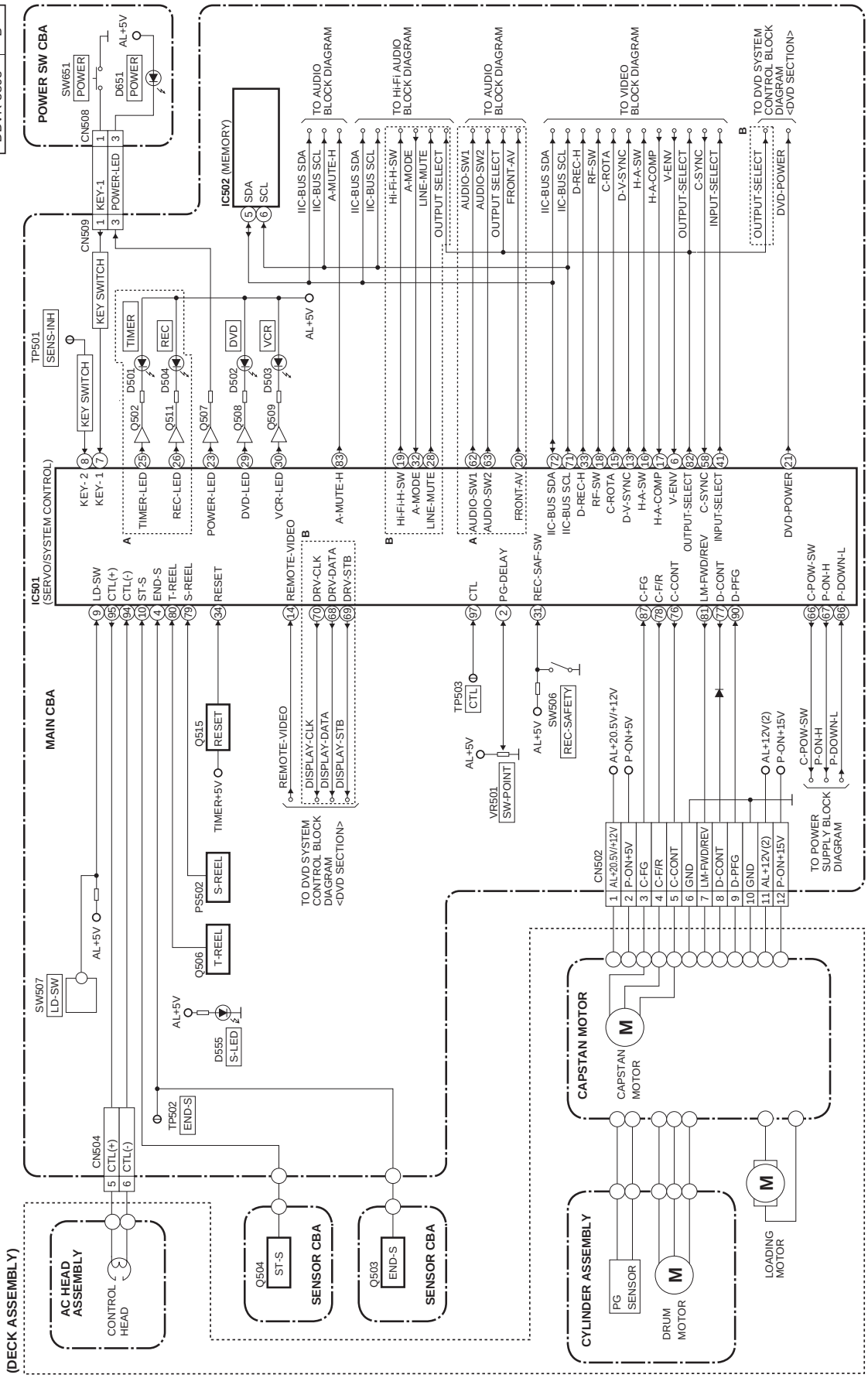


Fig. h

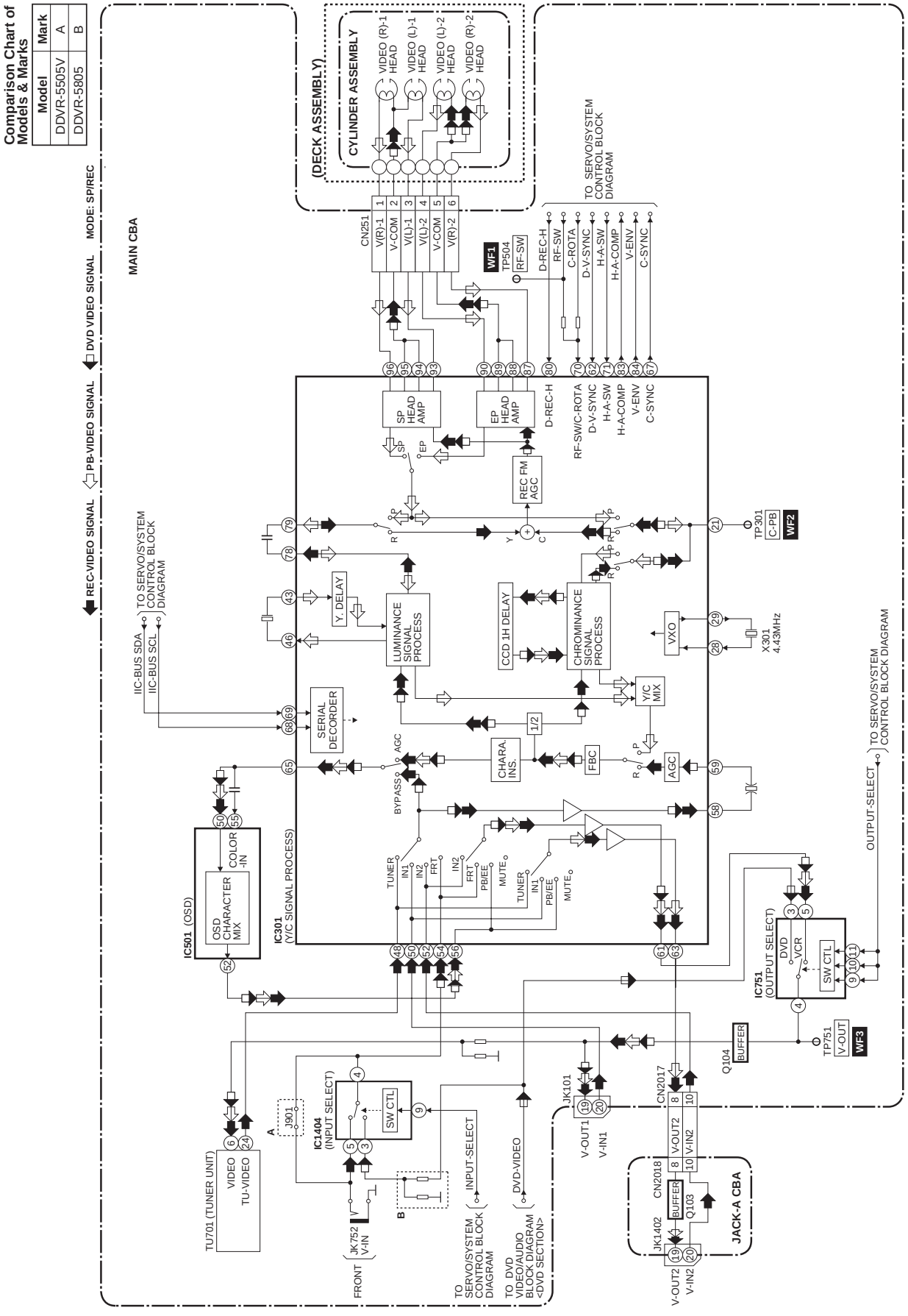
    When “OK” appears on the screen, the factory default will be set. Then the firmware renewal mode is complete.
11. To exit this mode, press [FUNCTION] button.

BLOCK DIAGRAMS <VCR SECTION>

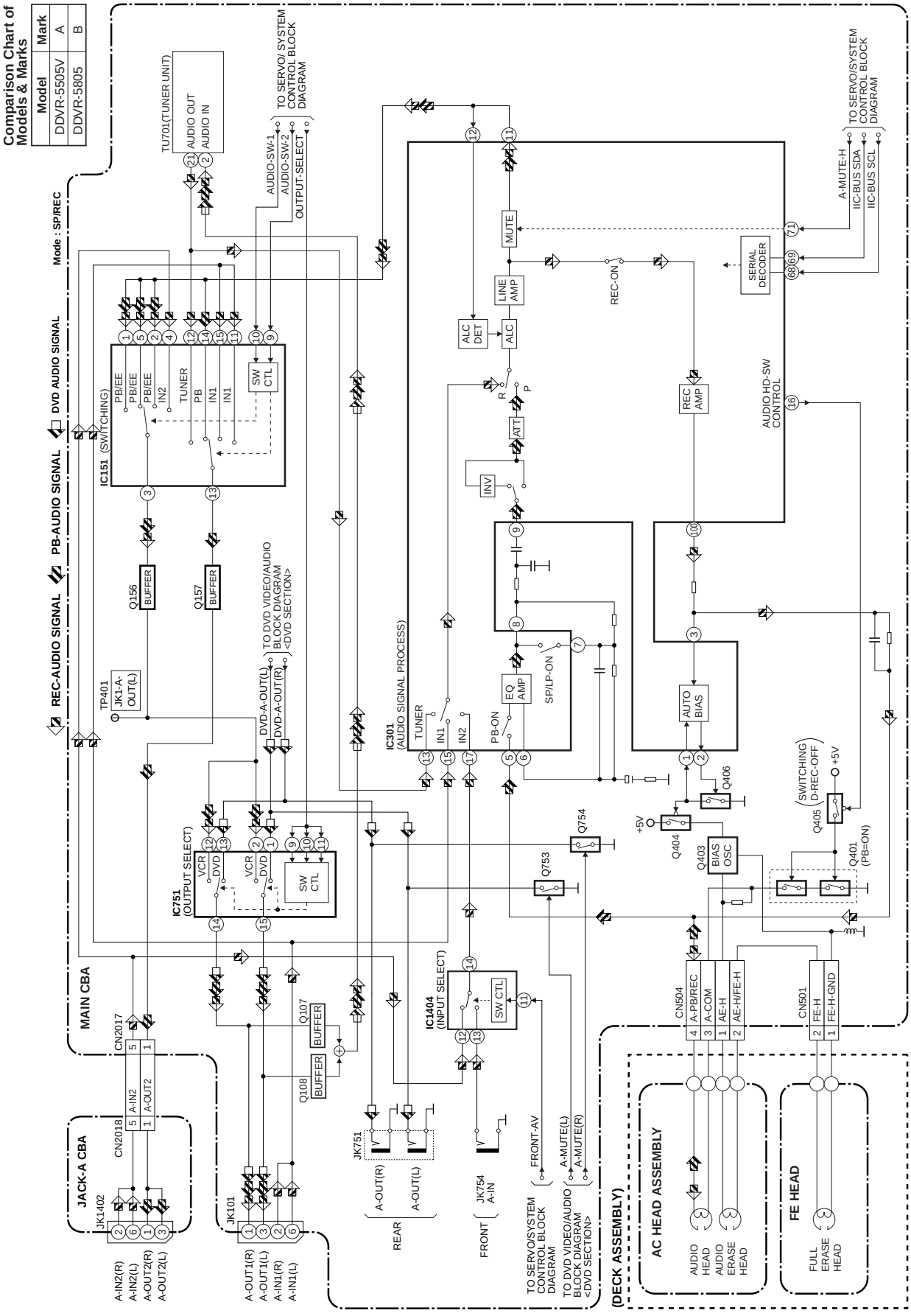
Servo/System Control Block Diagram



Video Block Diagram



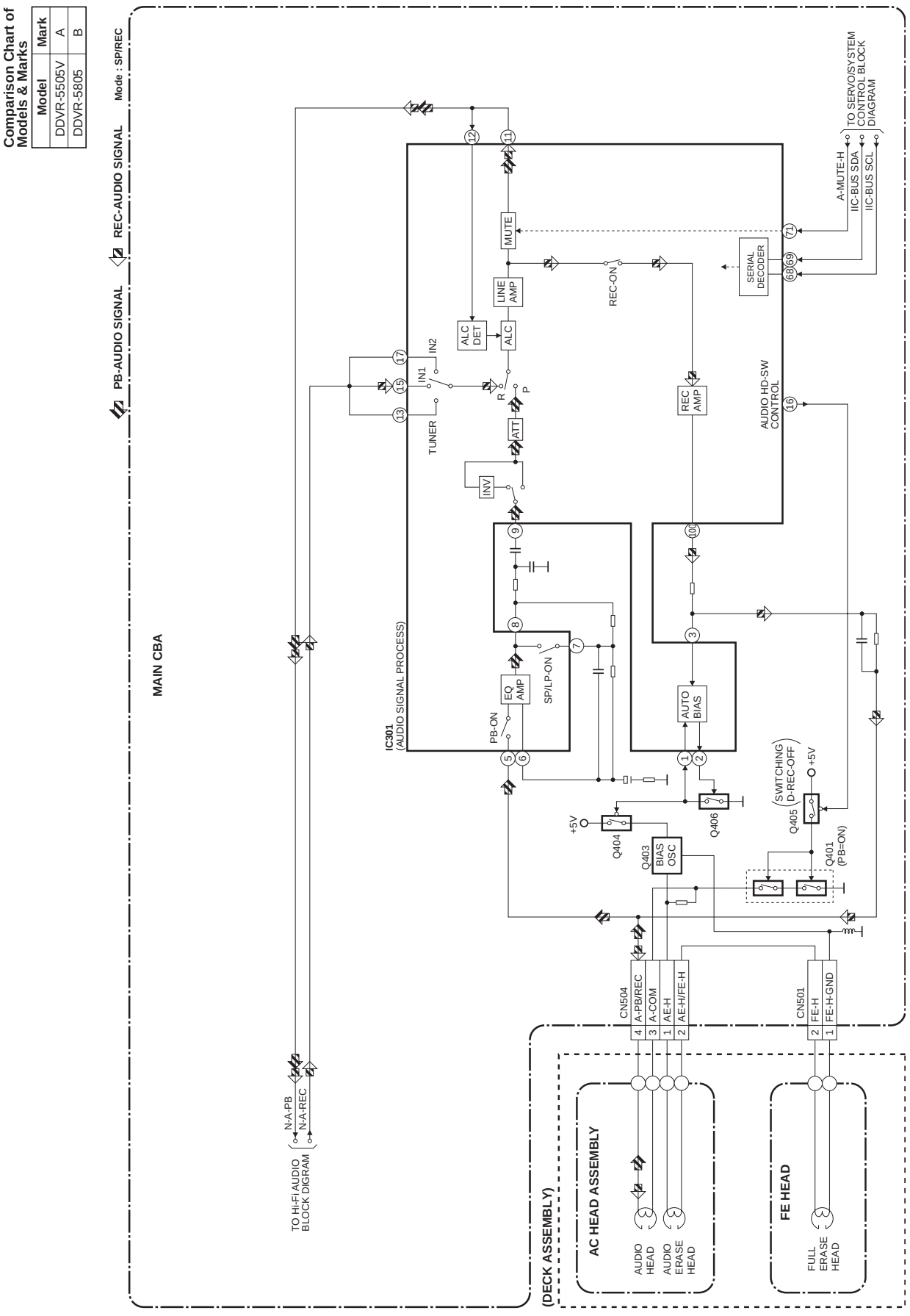
Audio Block Diagram (A)



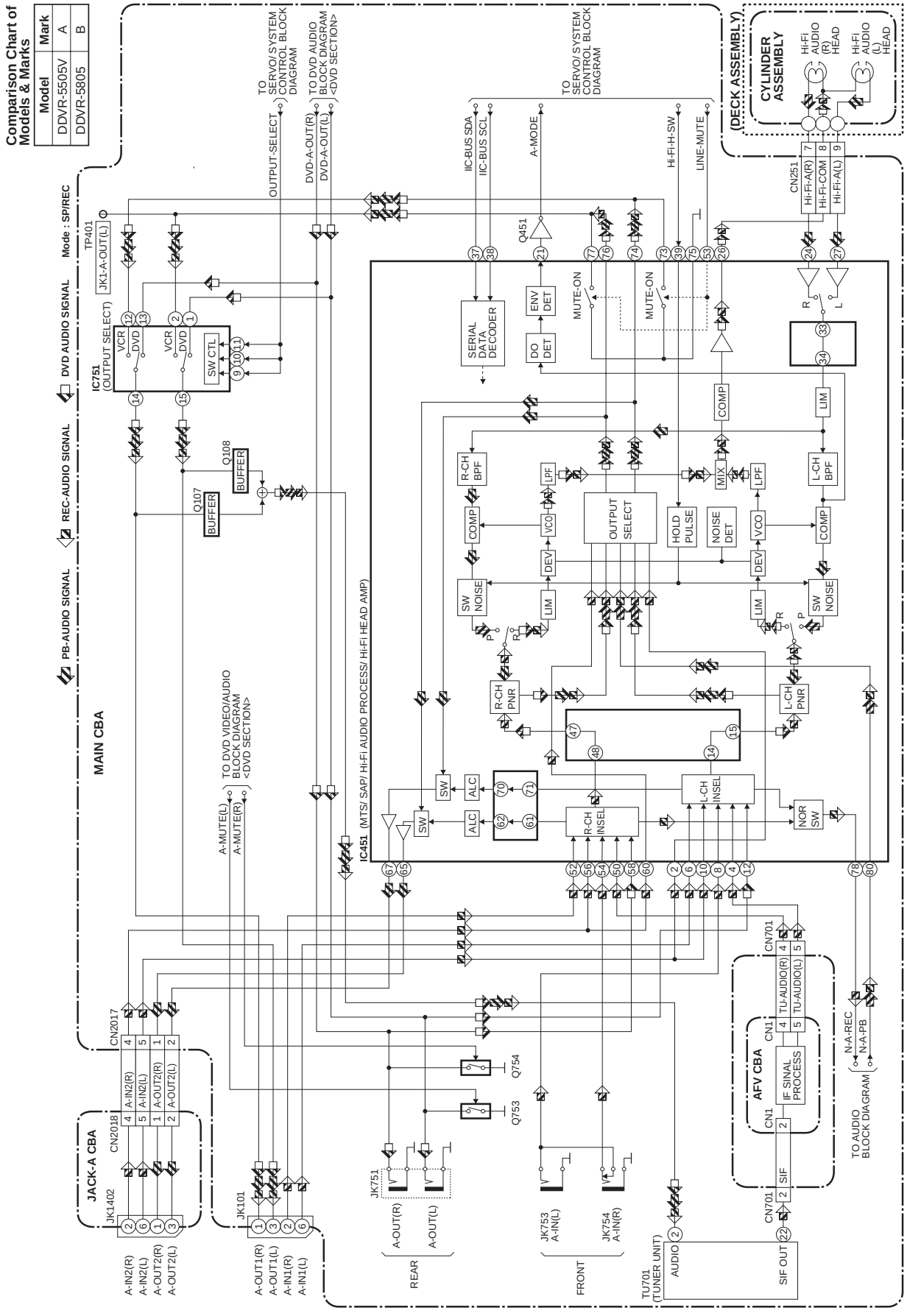
Audio Block Diagram (B)

Comparison Chart of Models & Marks

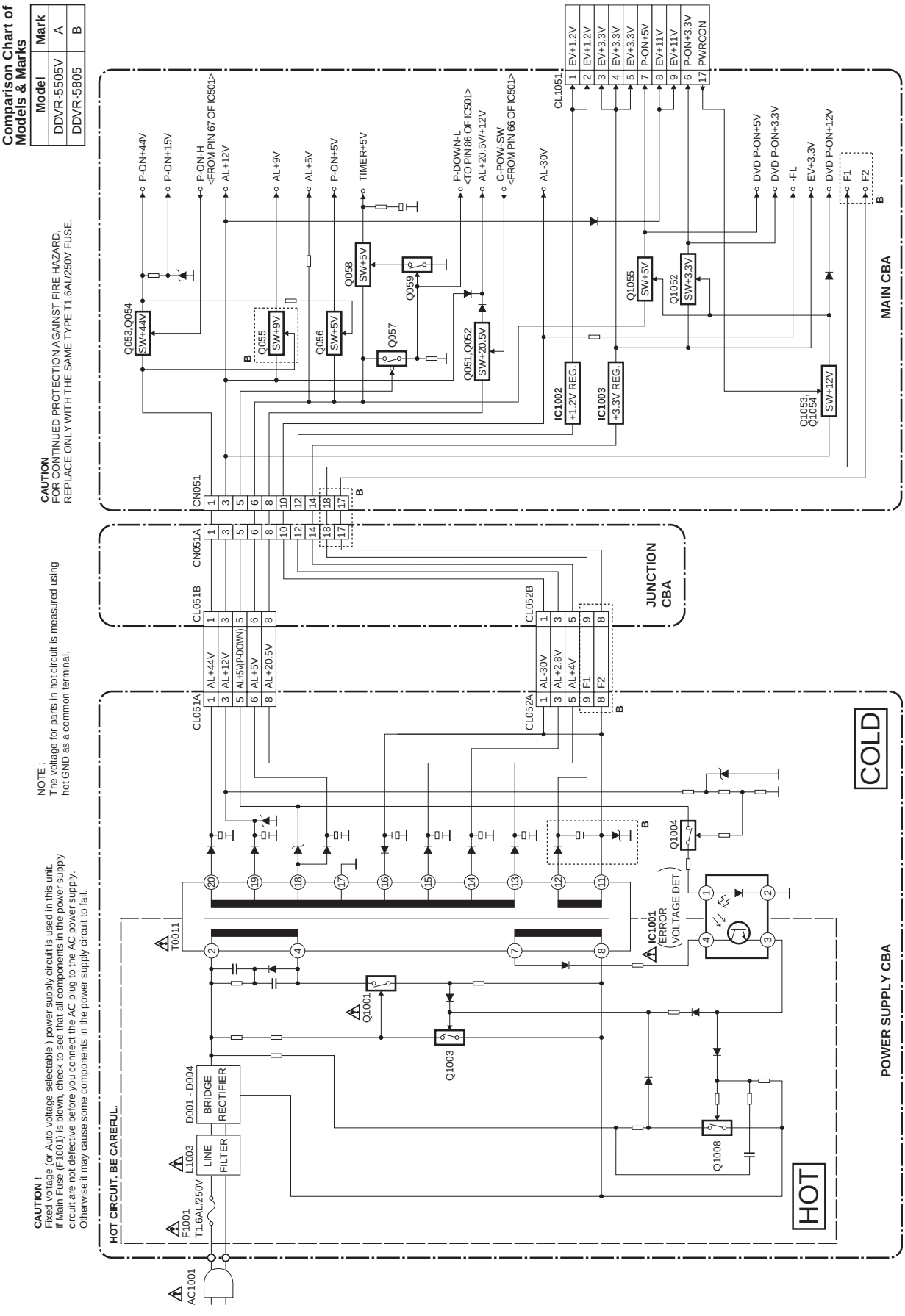
Model	Mark
DDVR-5505V	A
DDVR-5805	B



Hi-Fi Audio Block Diagram (B)

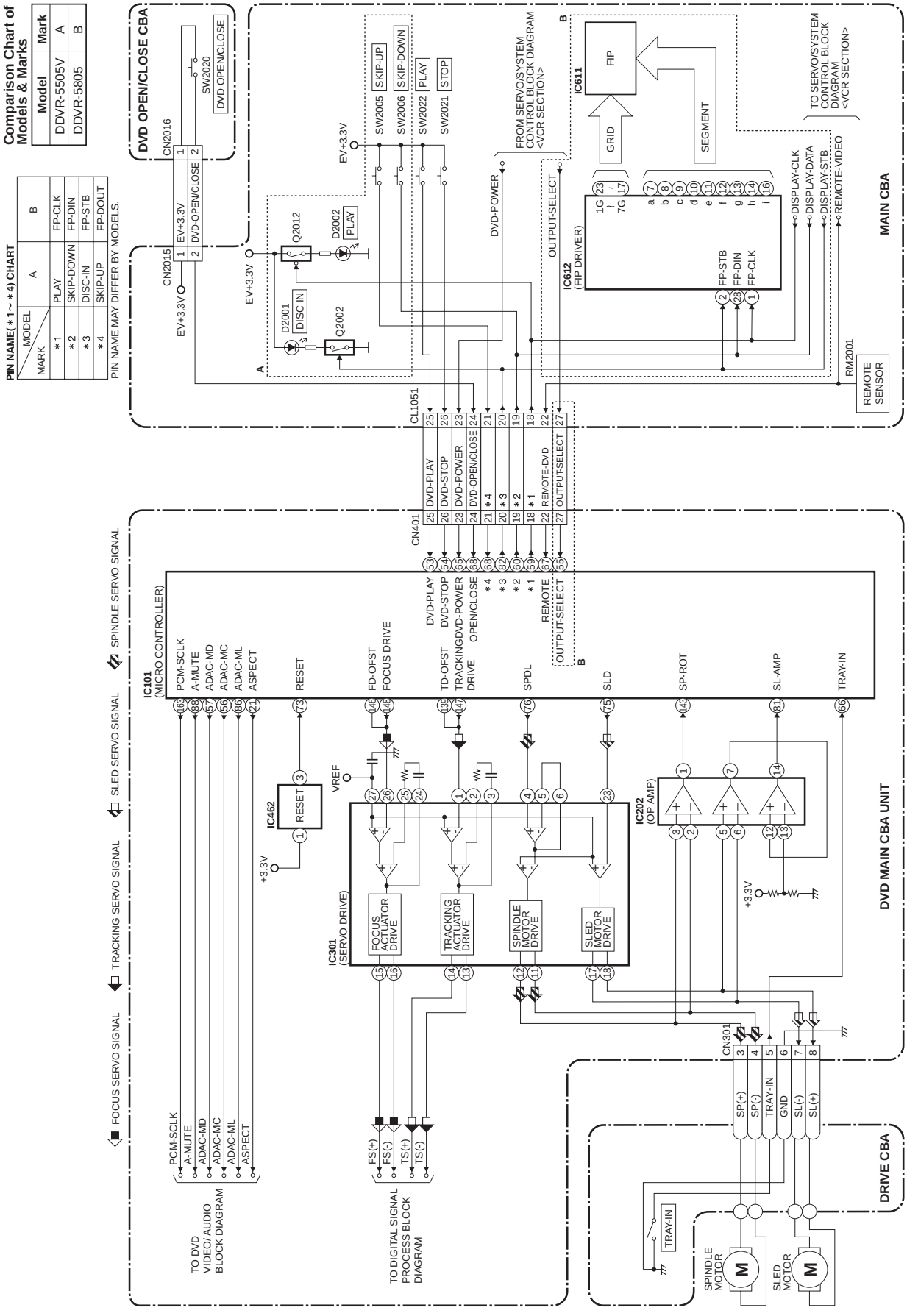


Power Supply Block Diagram

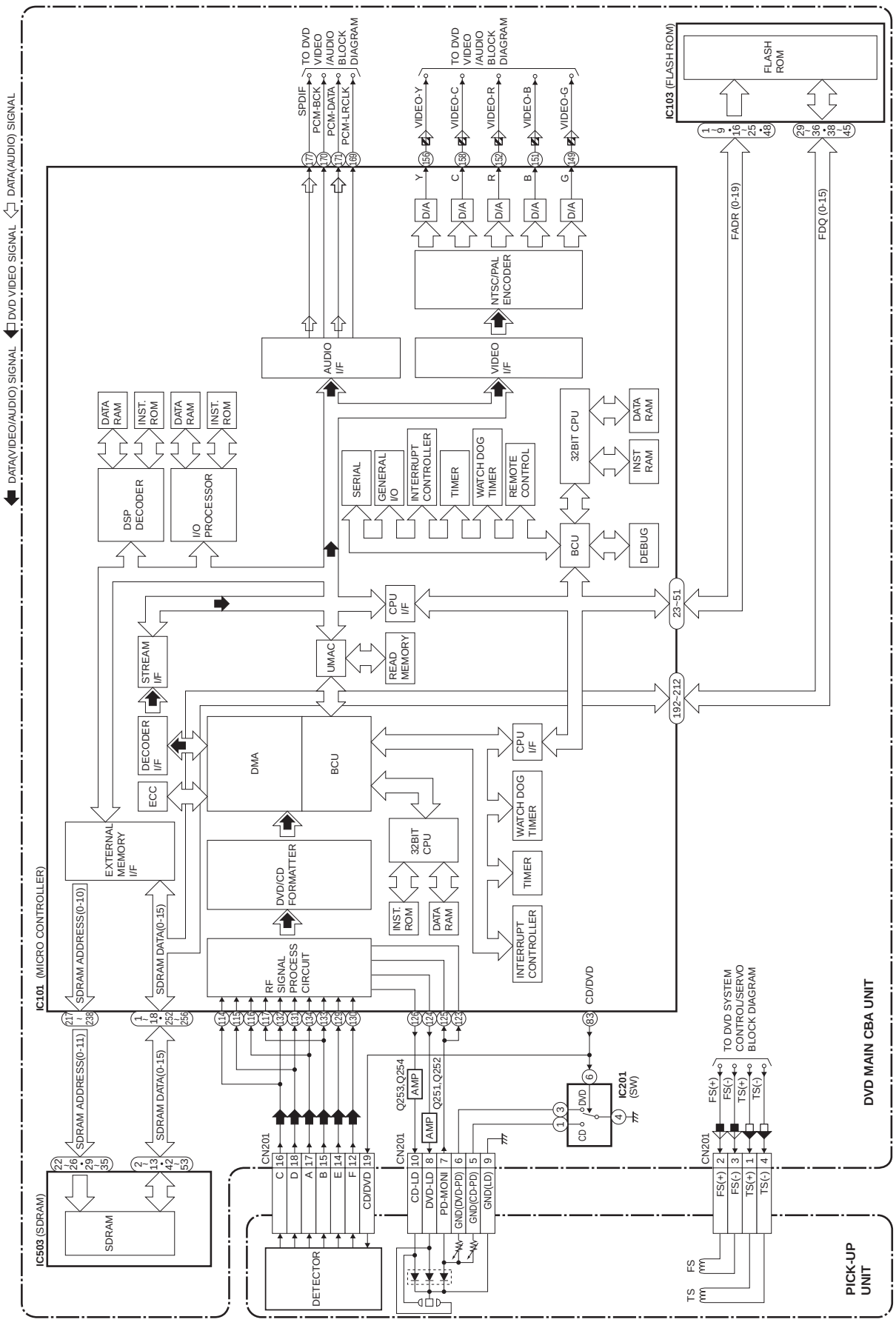


BLOCK DIAGRAMS <DVD SECTION>

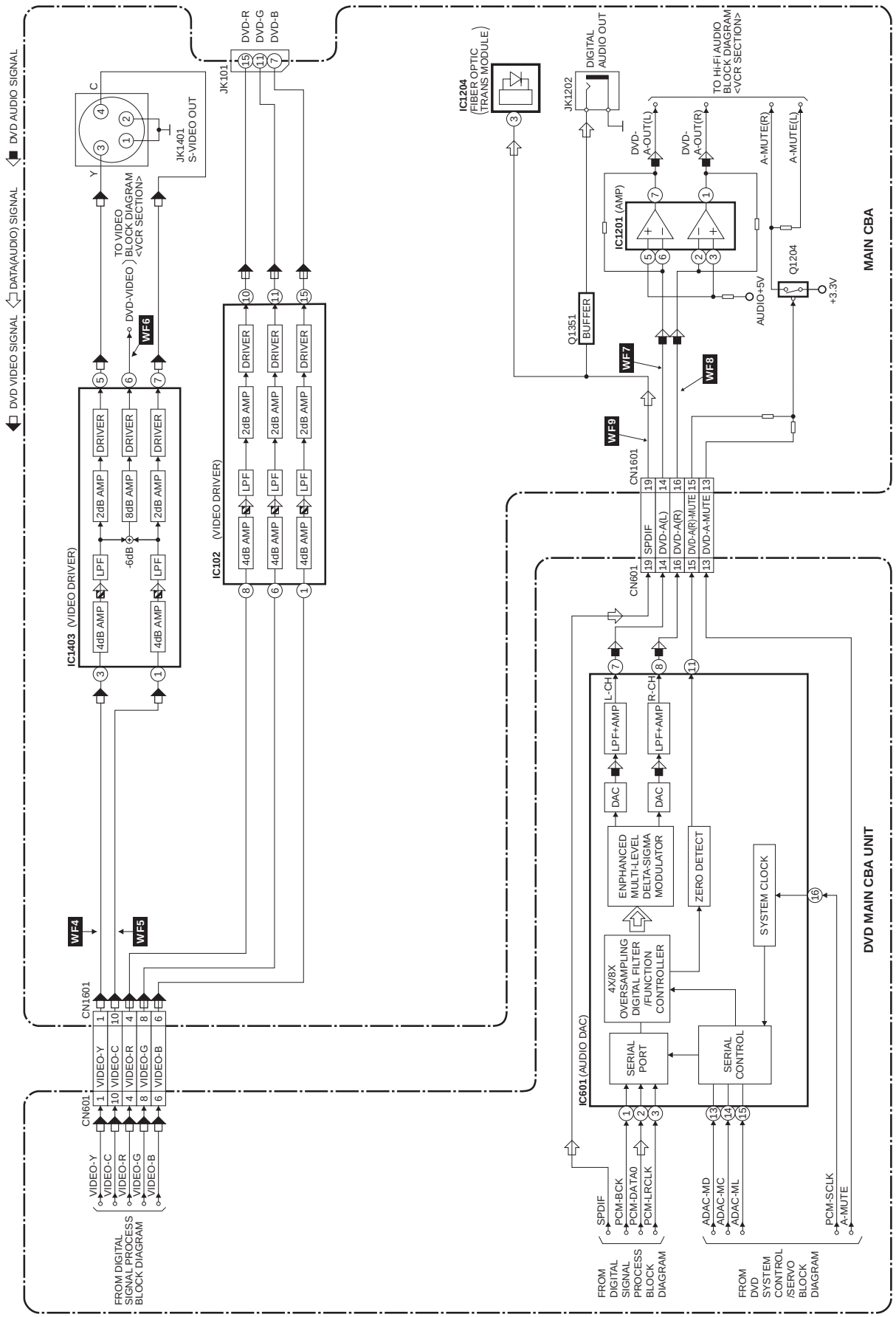
DVD System Control / Servo Block Diagram



Digital Signal Process Block Diagram



DVD Video / Audio Block Diagram



FUNCTION INDICATOR SYMBOLS

Note:

If a mechanical malfunction occurs, the power is turned off. When the power comes on again after that by pressing [FUNCTION] button, an error message is displayed on the TV screen for 5 seconds.

MODE	INDICATOR ACTIVE
When reel or capstan mechanism is not functioning correctly	"⏏ R" is displayed on a TV screen. (Refer to Fig. 1.)
When tape loading mechanism is not functioning correctly	"⏏ T" is displayed on a TV screen. (Refer to Fig. 2.)
When cassette loading mechanism is not functioning correctly	"⏏ C" is displayed on a TV screen. (Refer to Fig. 3.)
When the drum is not working properly	"⏏ D" is displayed on a TV screen. (Refer to Fig. 4.)
P-ON Power safety detection	"⏏ P" is displayed on a TV screen. (Refer to Fig. 5.)

TV screen

When reel or capstan mechanism is not functioning correctly

Fig. 1

When tape loading mechanism is not functioning correctly

Fig. 2

When cassette loading mechanism is not functioning correctly

Fig. 3

When the drum is not working properly

Fig. 4

P-ON Power safety detection

Fig. 5

SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

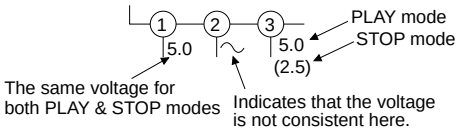
1. **CAUTION:**
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. **CAUTION:**
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

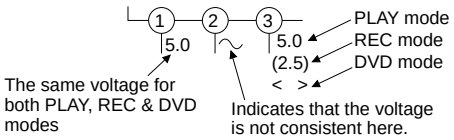
3. **Note:**
(1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
(2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications for PLAY and REC modes on the schematics are as shown below:

< DVD Section >



< VCR Section >



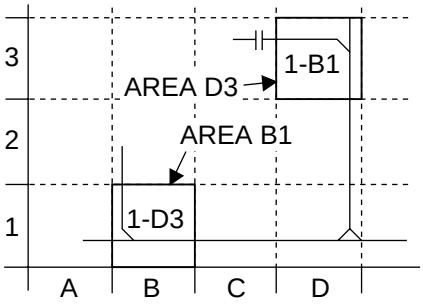
Unit: Volts

5. How to read converged lines

1-D3
Distinction Area
Line Number
(1 to 3 digits)

Examples:

1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

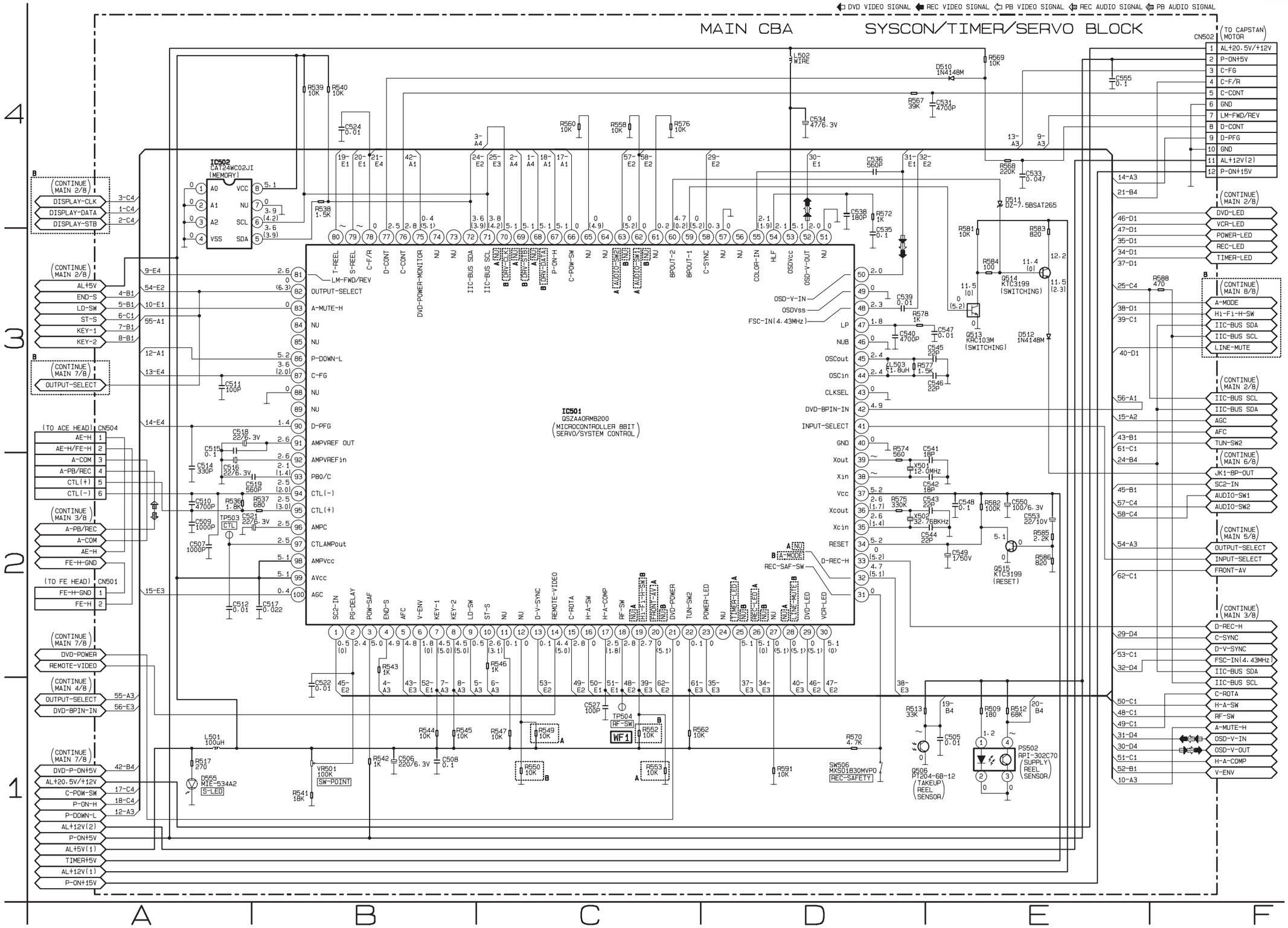
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

Main 1/8 Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



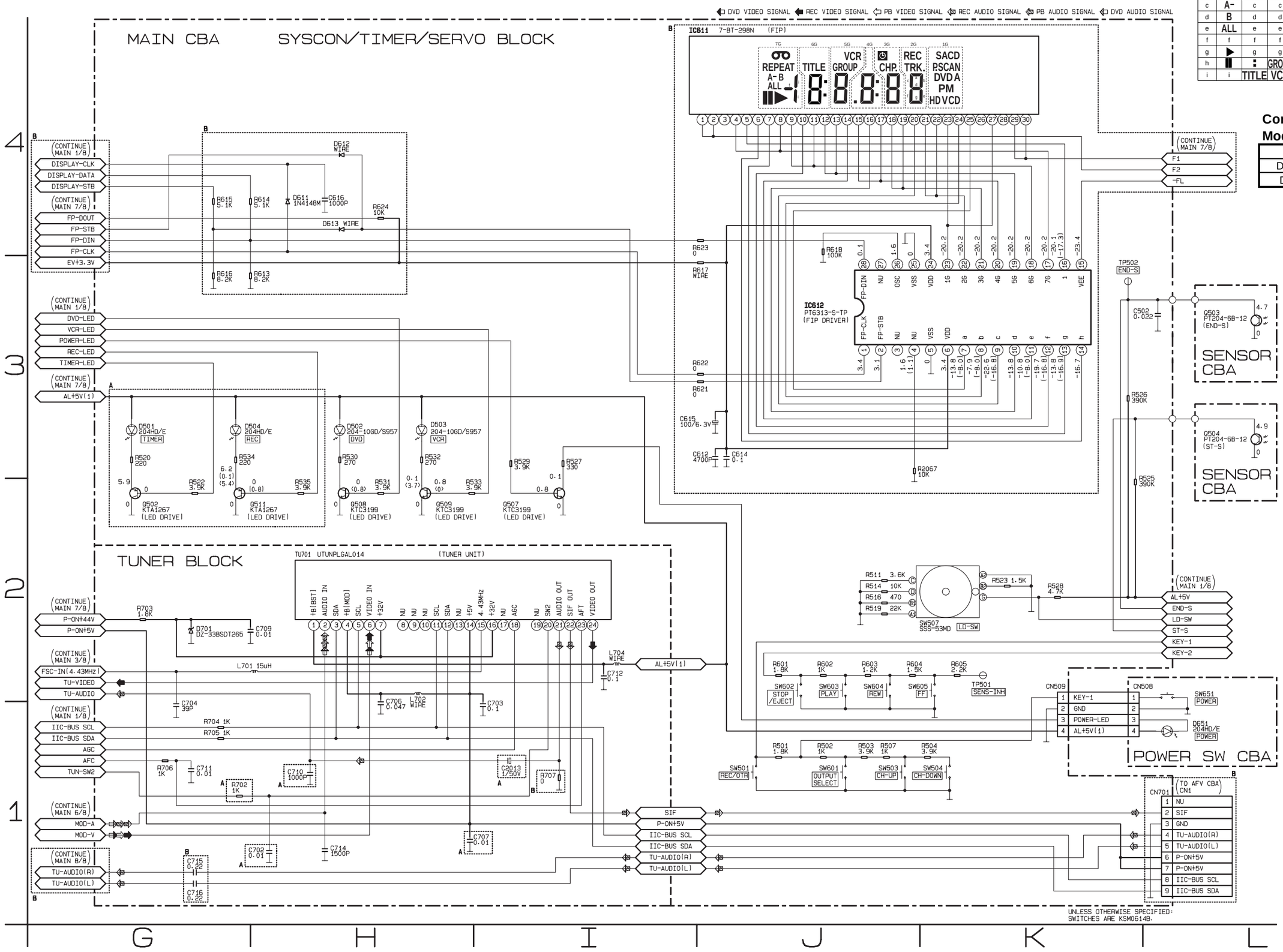
Main 2/8, Sensor & Power SW Schematic Diagrams < VCR Section >

IC611 MATRIX CHART

	7G	6G	5G	4G	3G	2G	1G
a	∞	a	a	a	a	a	SACD
b	REPEAT	b	b	b	b	b	PSCAN
c	A-	c	c	c	c	c	DVD
d	B	d	d	d	d	d	A
e	ALL	e	e	e	e	e	P
f	f	f	f	f	f	f	M
g	▶	g	g	g	g	g	HD
h	▮▮	:	GROUP	:	CHP	TRK.	V
i	i	TITLE	VCR	.	⏲	REC	CD

Comparison Chart of Models and Marks

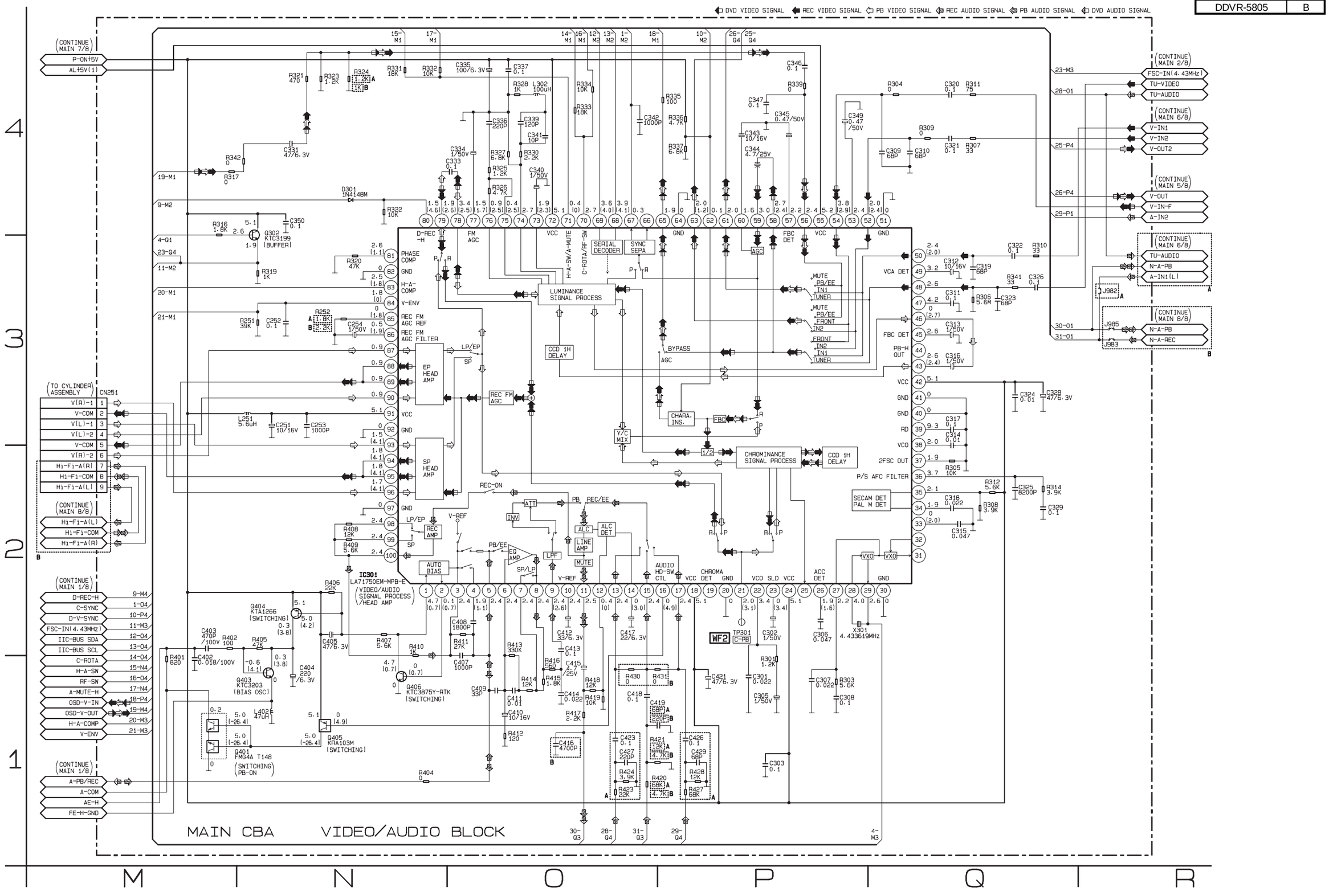
MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



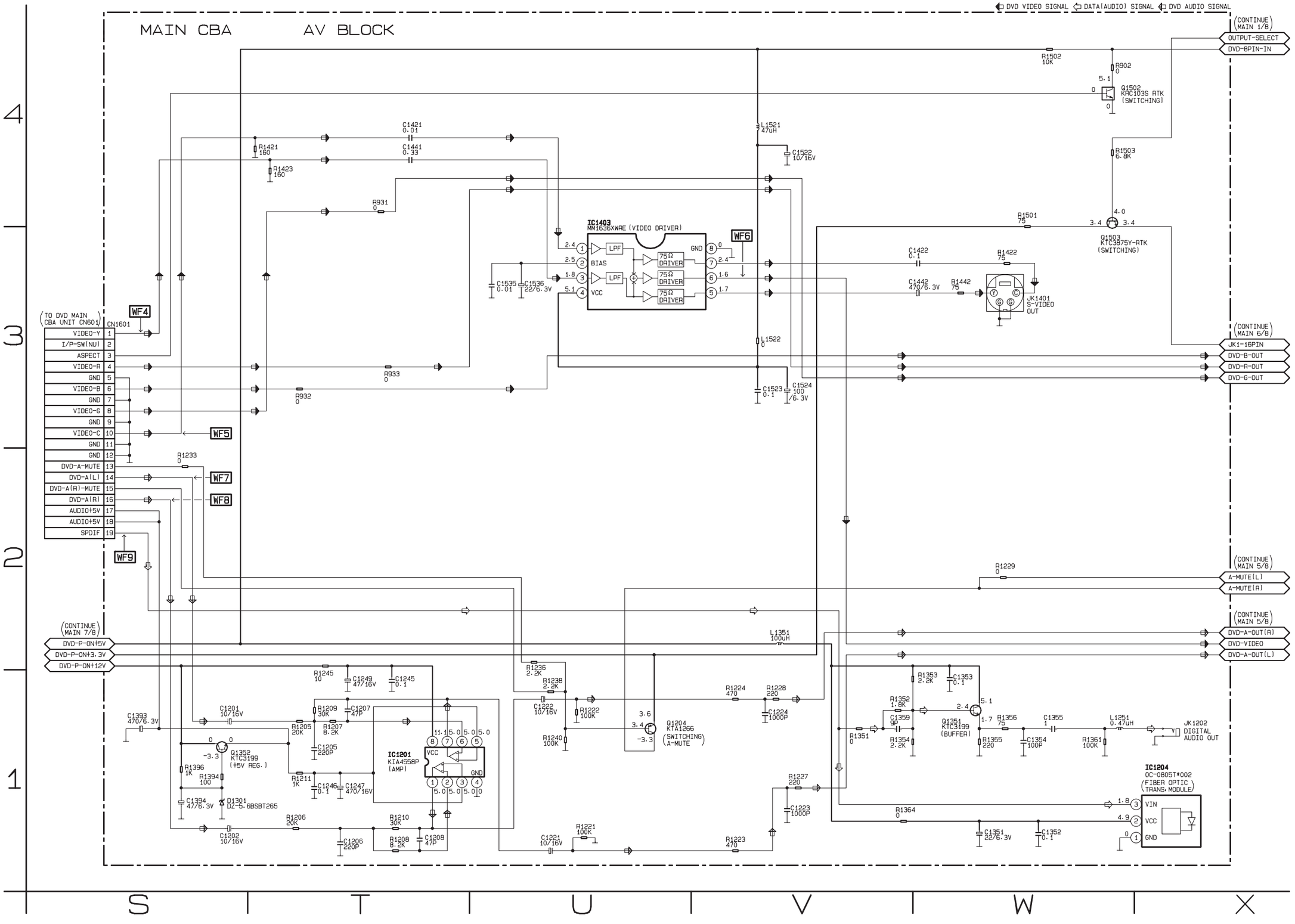
Main 3/8 Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



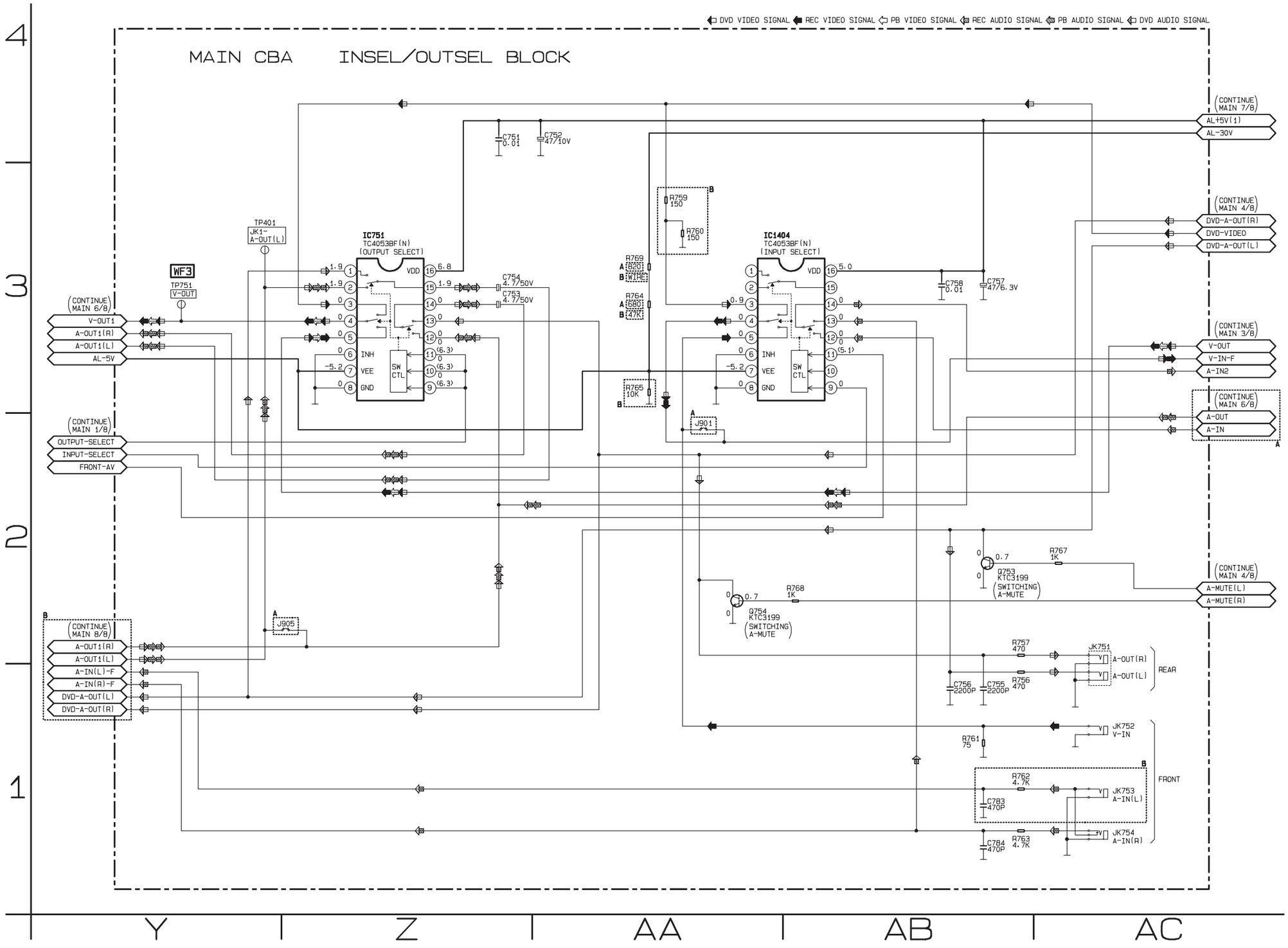
Main 4/8 Schematic Diagram < VCR Section >



Main 5/8 Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

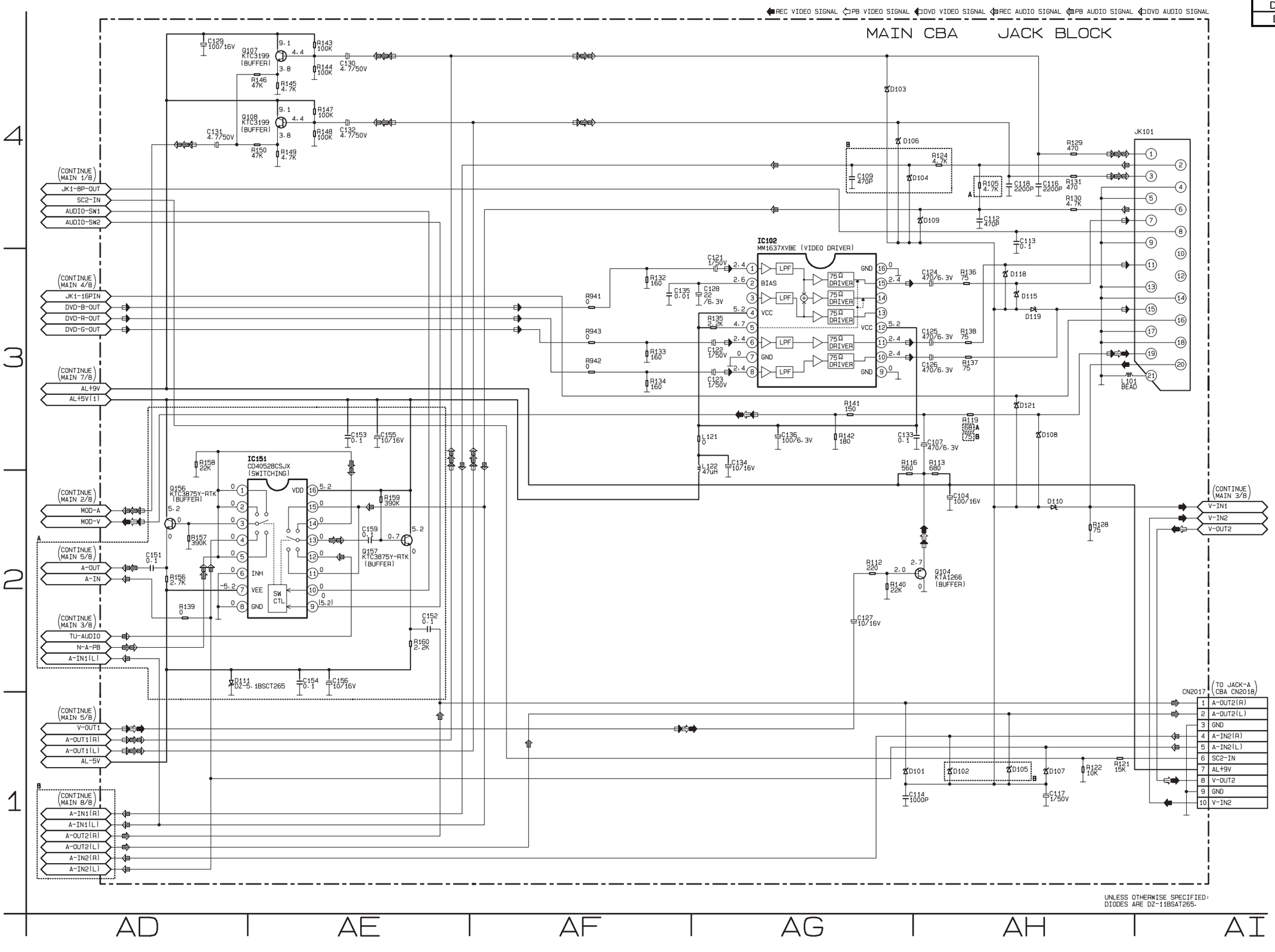
MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



Main 6/8 Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



Main 7/8 & DVD Open/Close Schematic Diagrams < VCR Section >

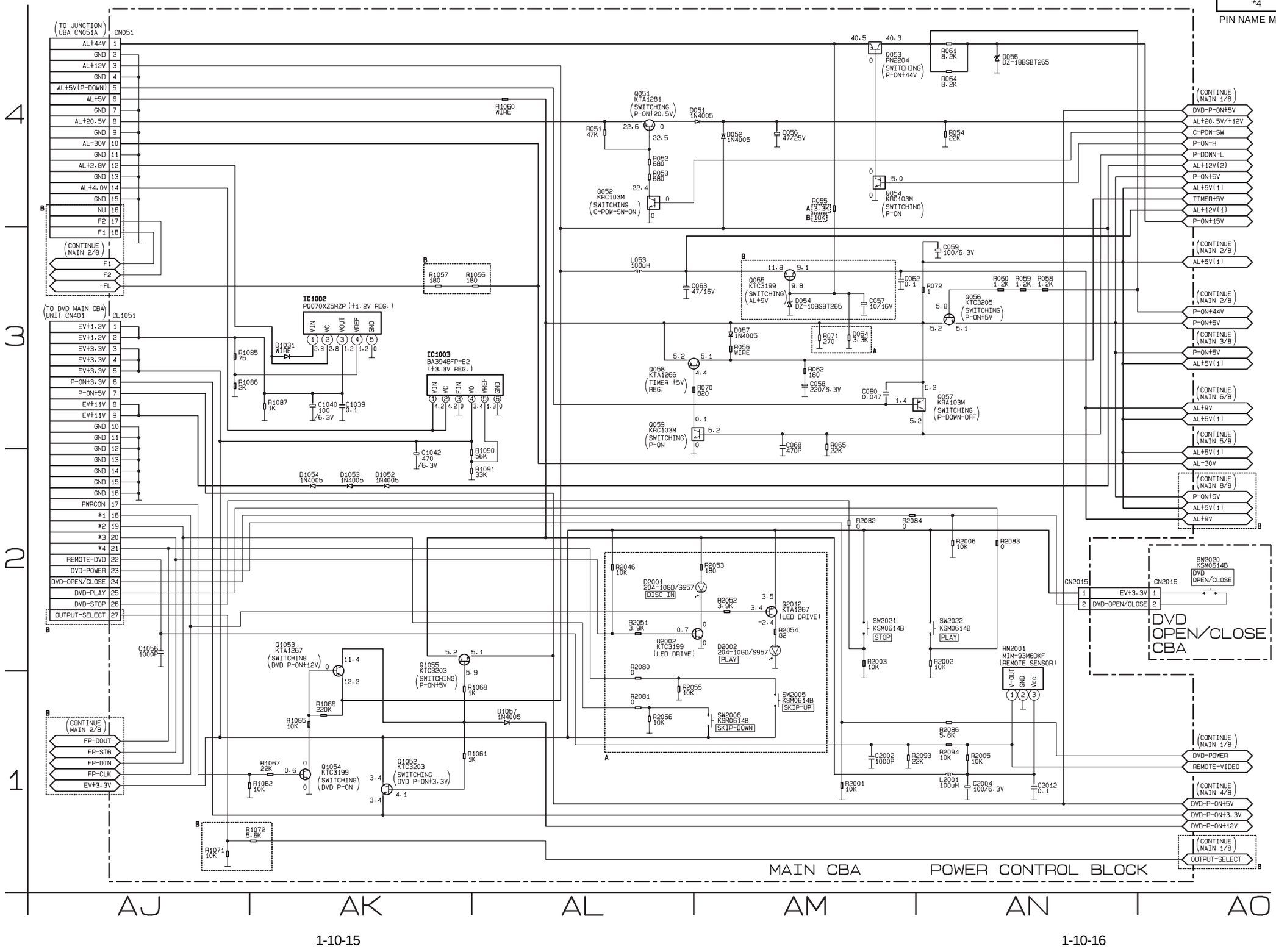
PIN NAME (*1~*4) CHART

MARK \ MODEL	A	B
*1	PLAY	FP-CLK
*2	SKIP-DOWN	FP-DIN
*3	DISC-IN	FP-STB
*4	SKIP-UP	FP-DOUT

PIN NAME MAY DIFFER BY MODELS.

Comparison Chart of Models and Marks

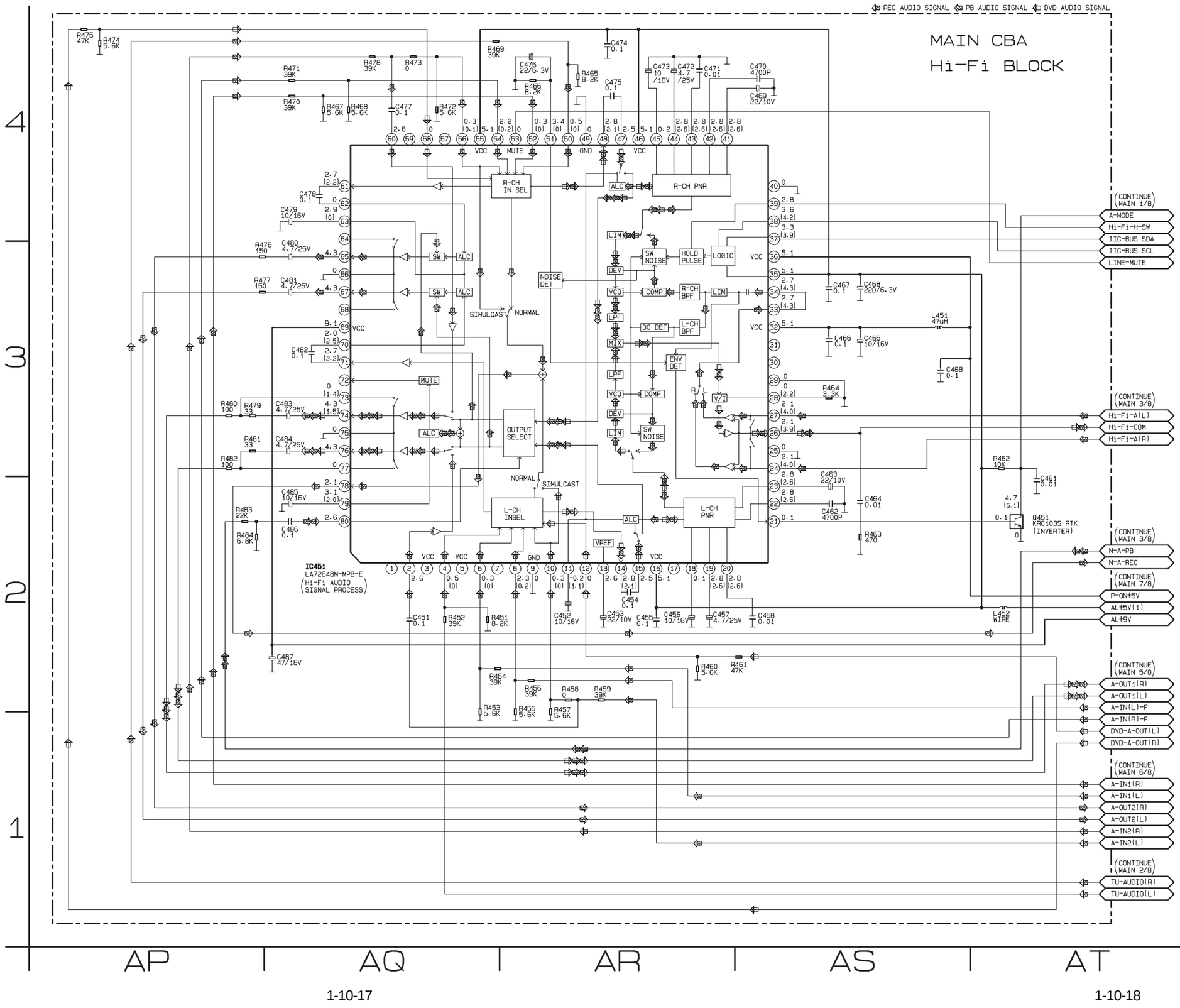
MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



Main 8/8 Schematic Diagram (B) < VCR Section >

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



Power Supply & Junction Schematic Diagram < VCR Section >

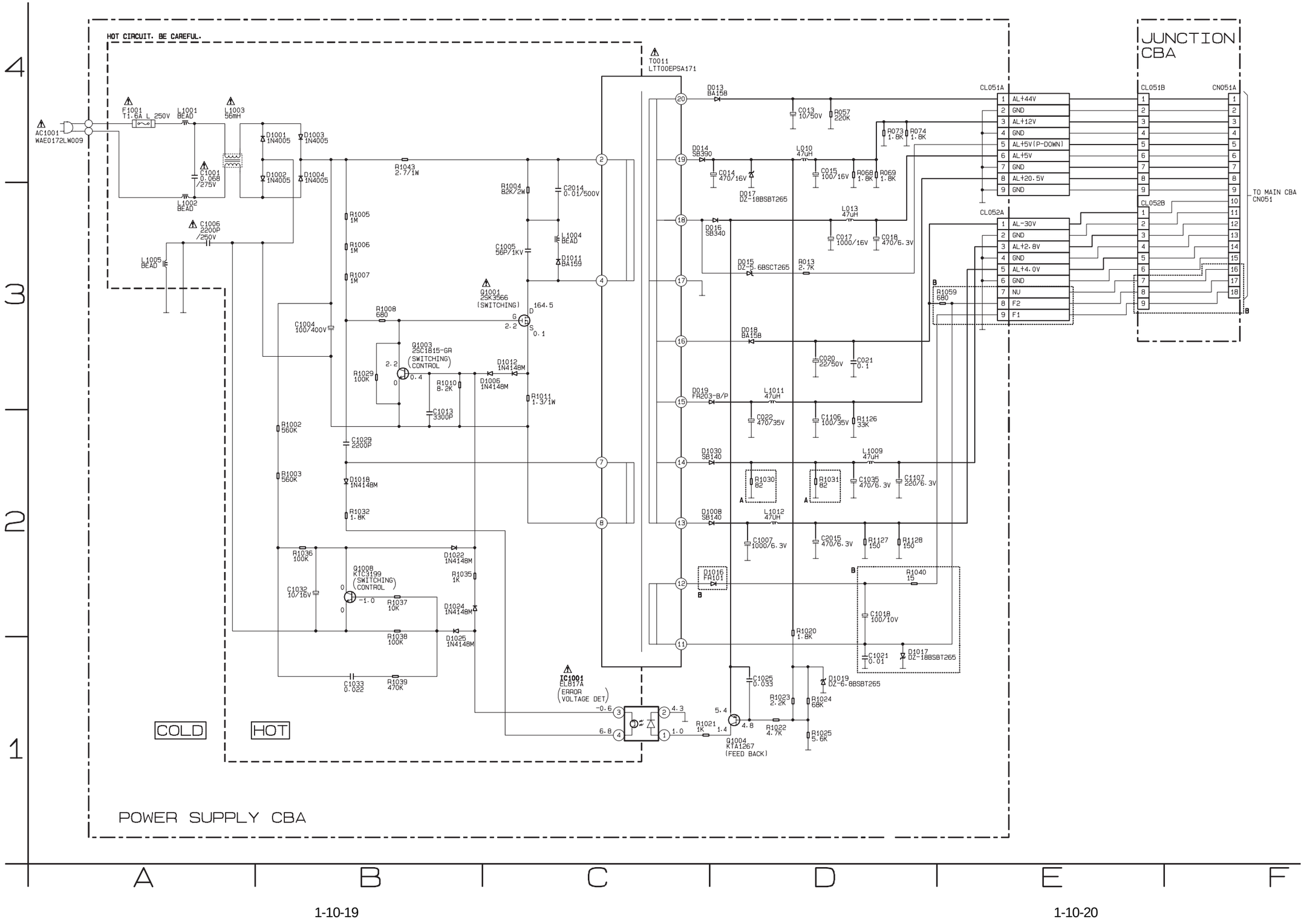
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

Comparison Chart of Models and Marks

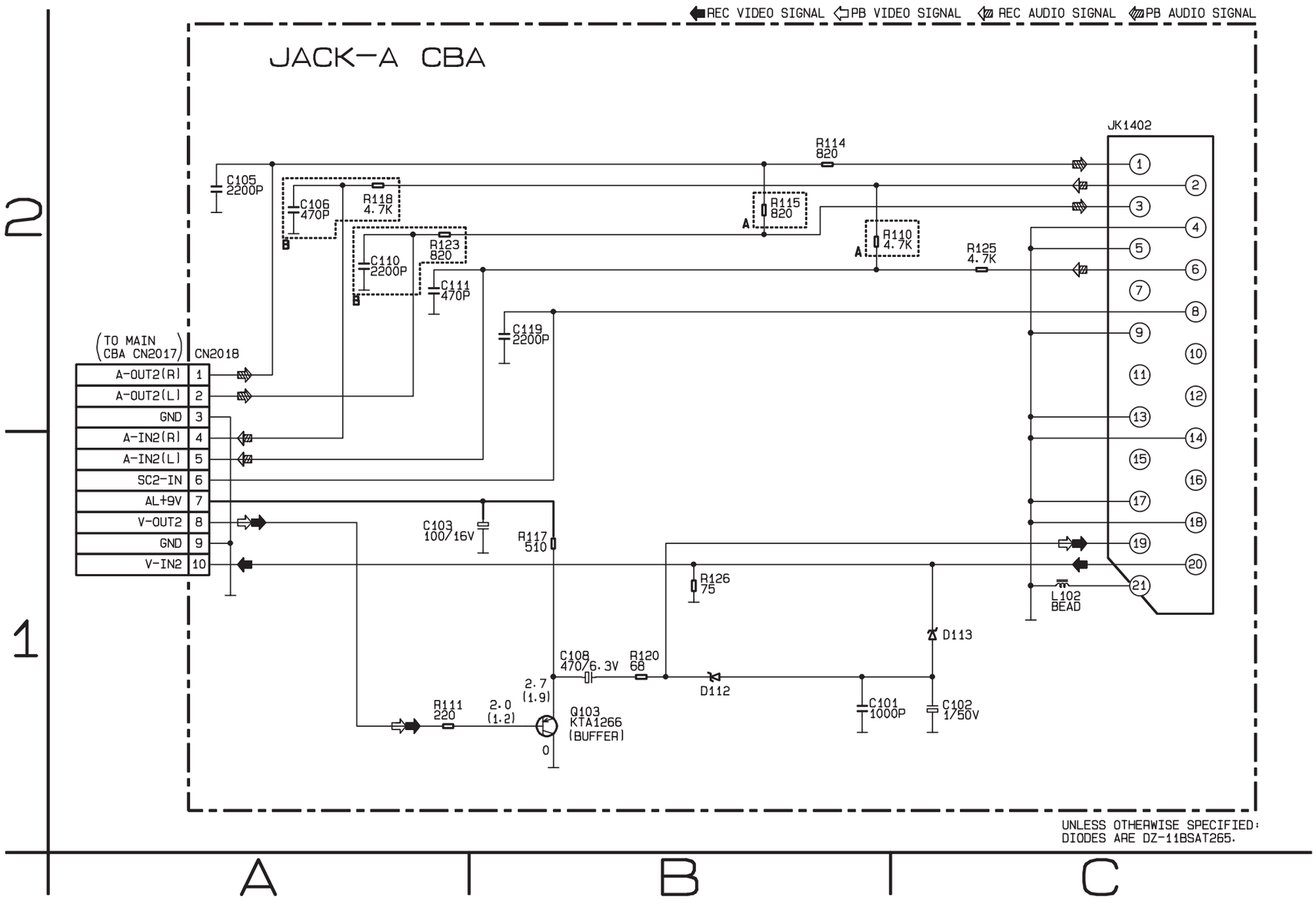
MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



Jack-A Schematic Diagram < VCR Section >

Comparison Chart of Models and Marks

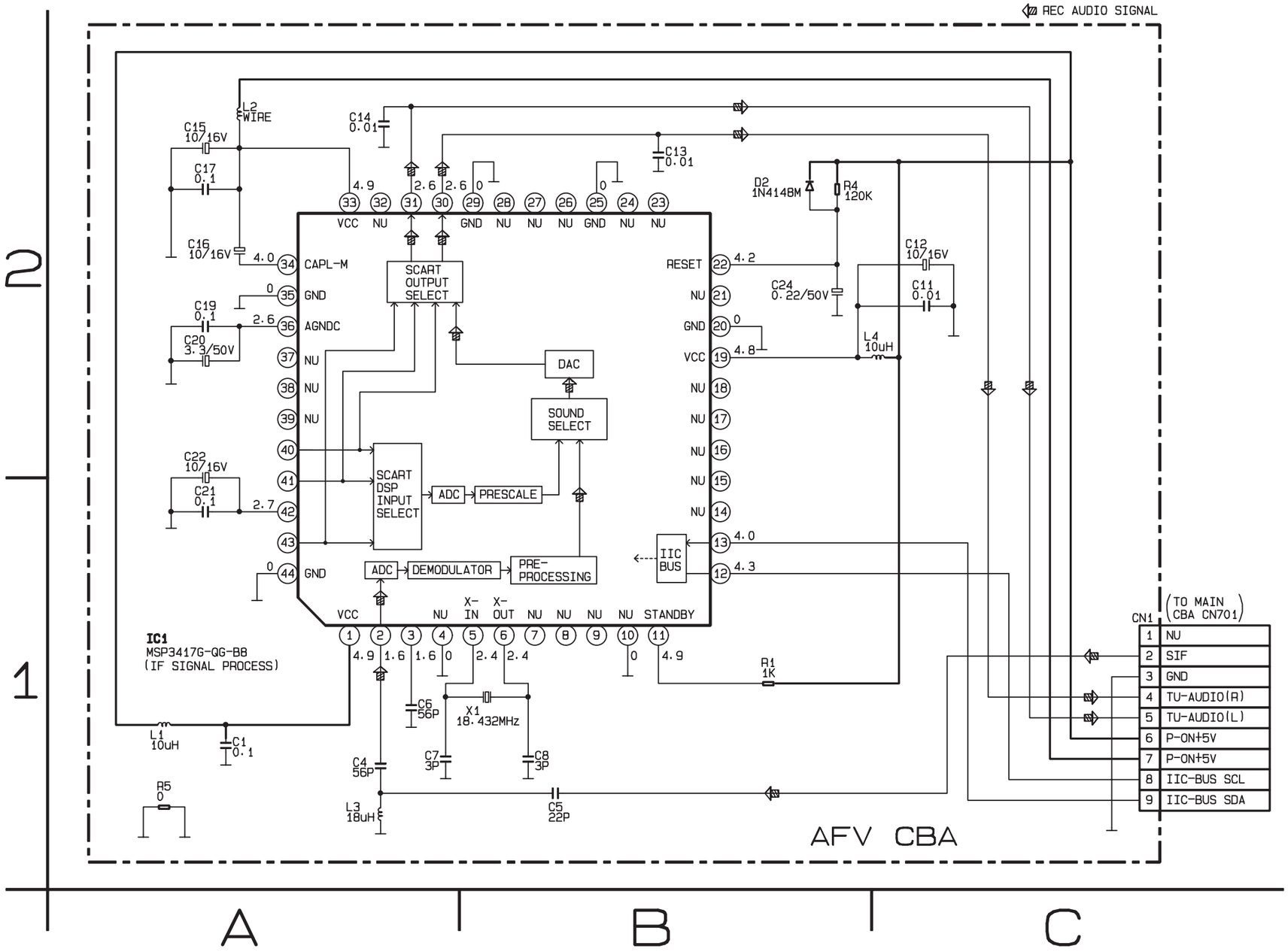
MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



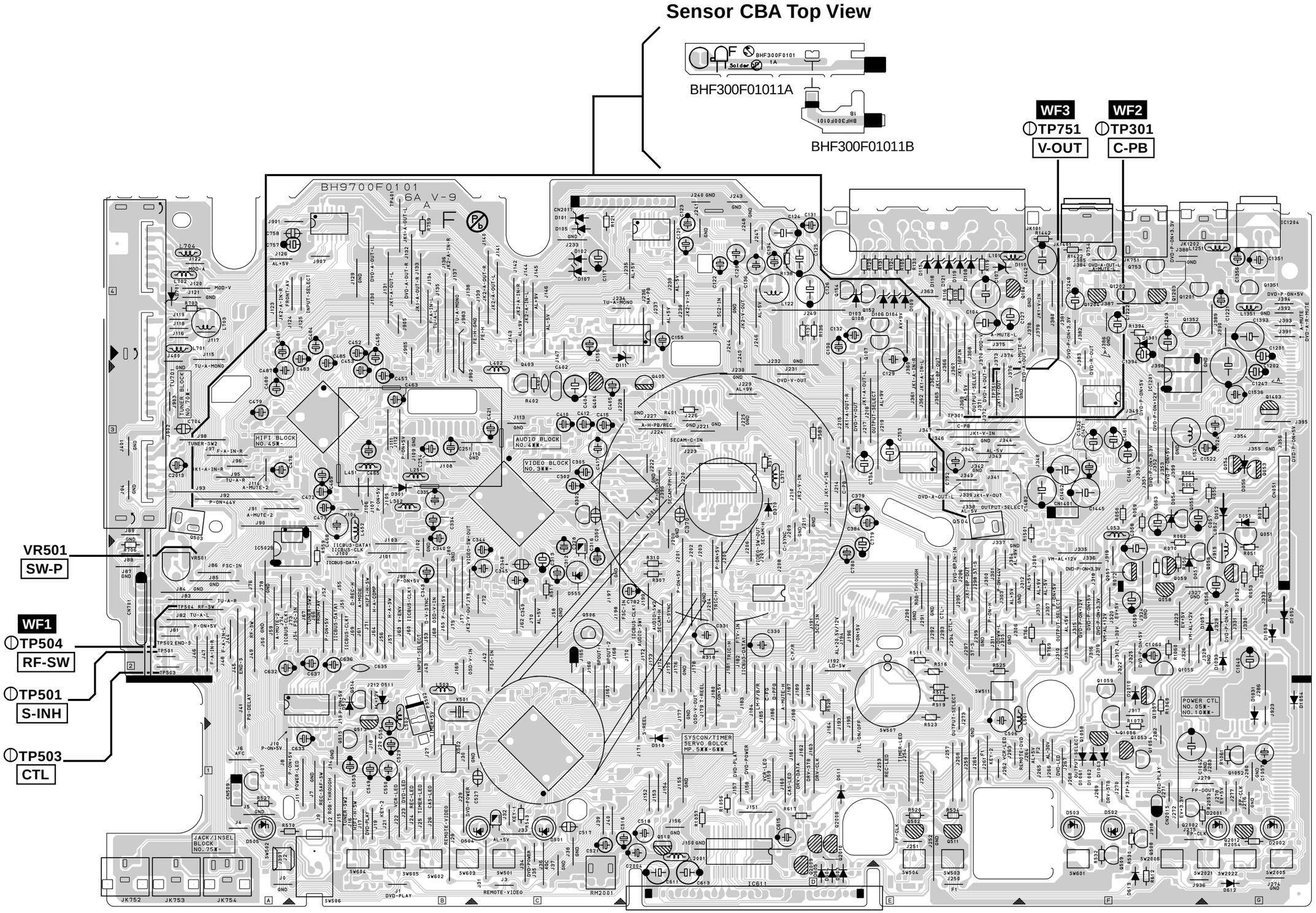
AFV Schematic Diagram (B) < VCR Section >

Comparison Chart of Models and Marks

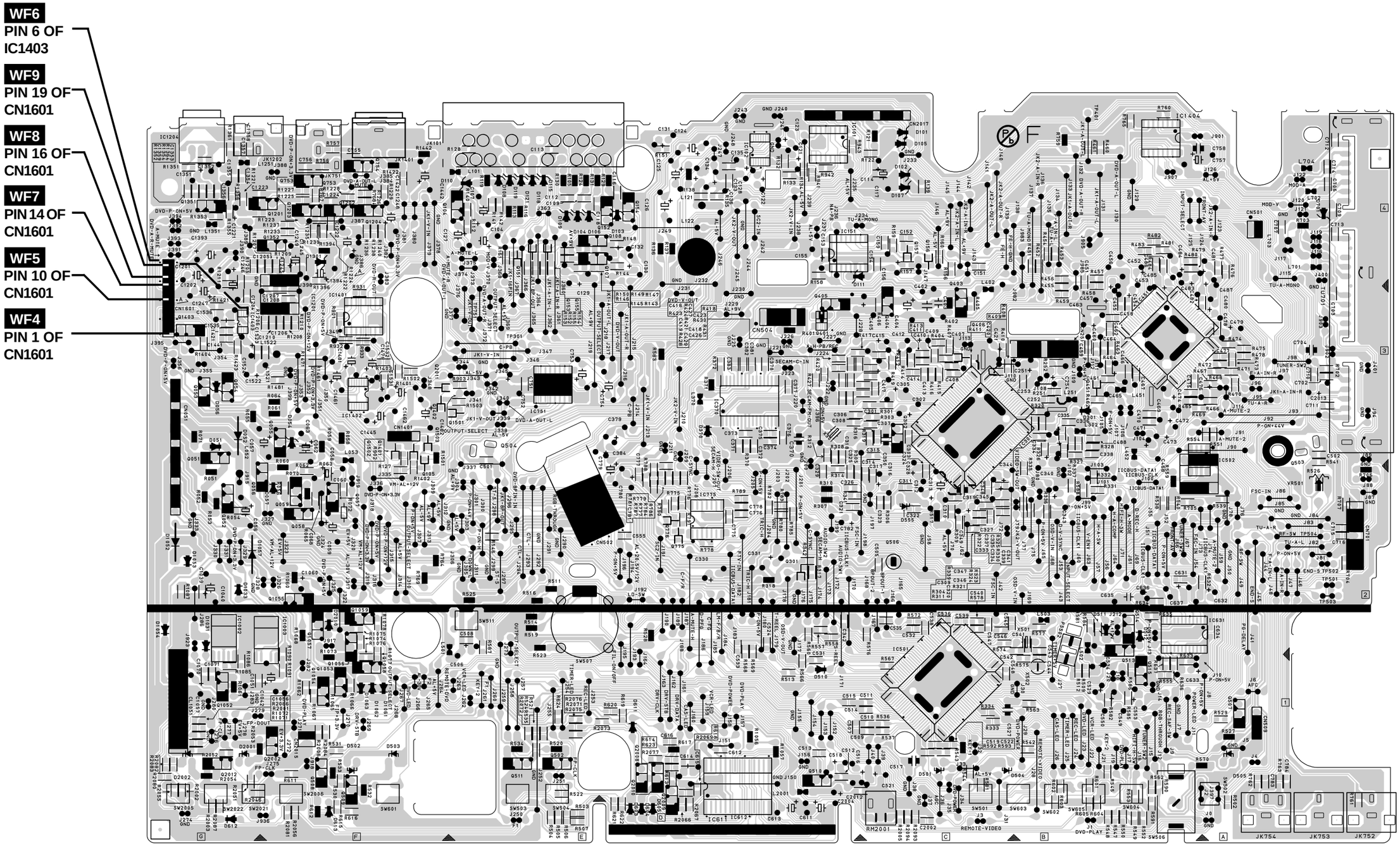
MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



Main CBA & Sensor CBA Top View

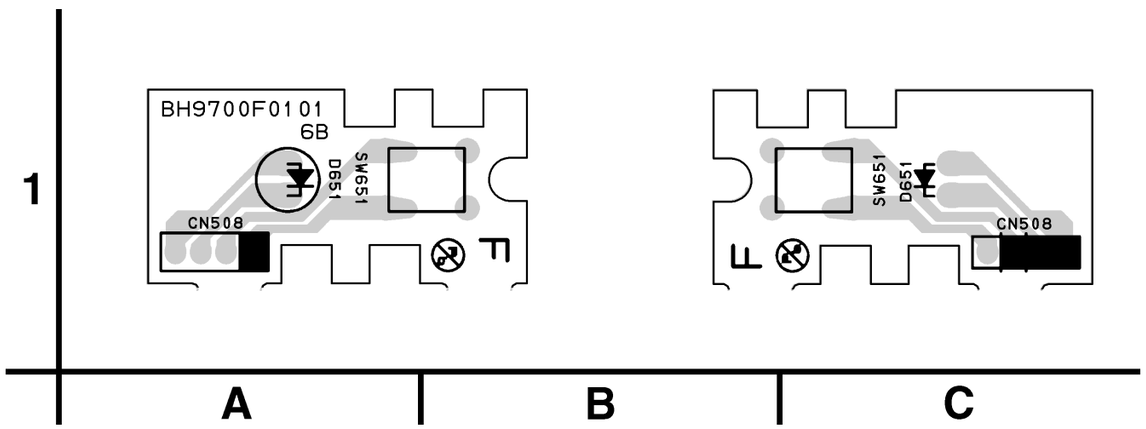


Main CBA Bottom View



Power SW CBA Top View

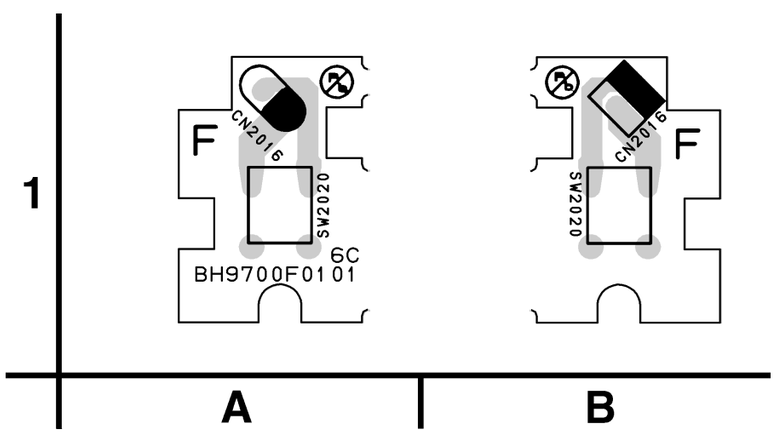
Power SW CBA Bottom View



BH9700F01016B

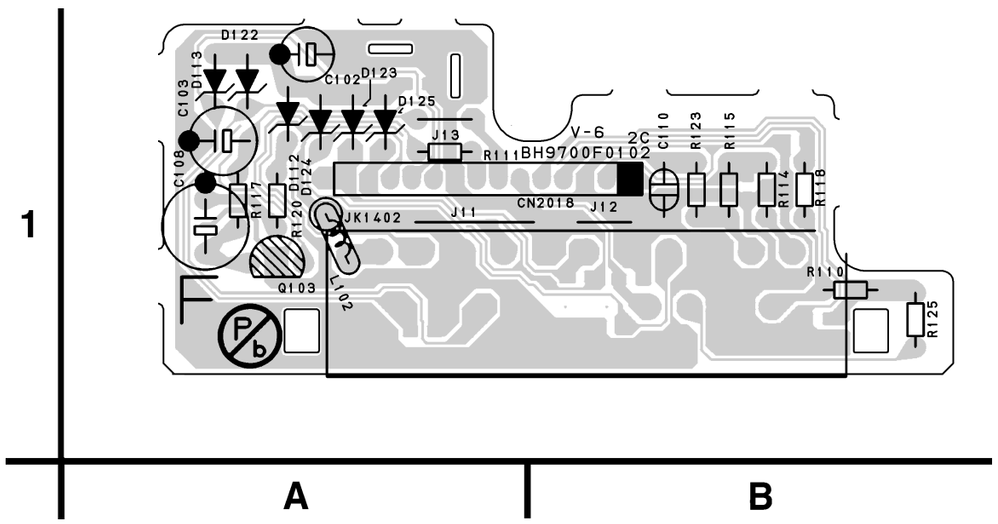
DVD Open/Close
CBA Top View

DVD Open /Close
CBA Bottom View

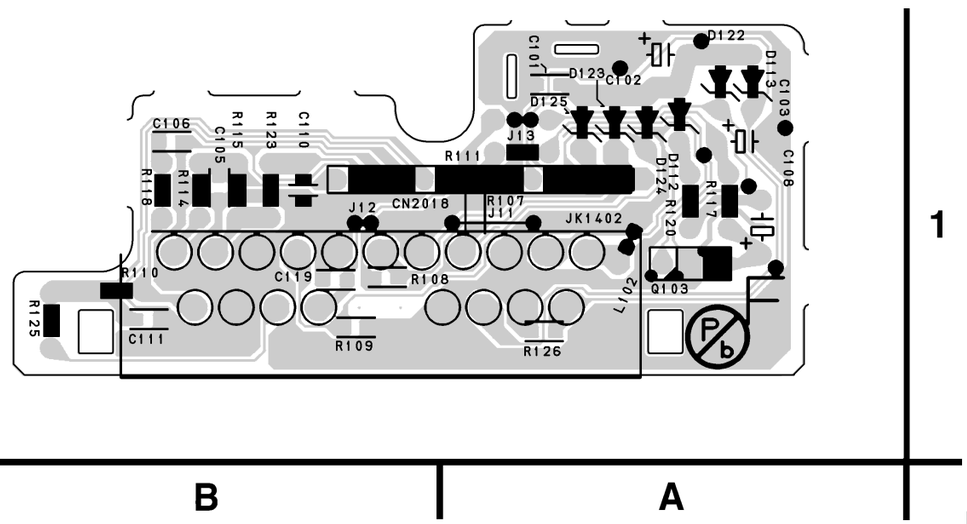


BH9700F01016C

Jack-A CBA Top View

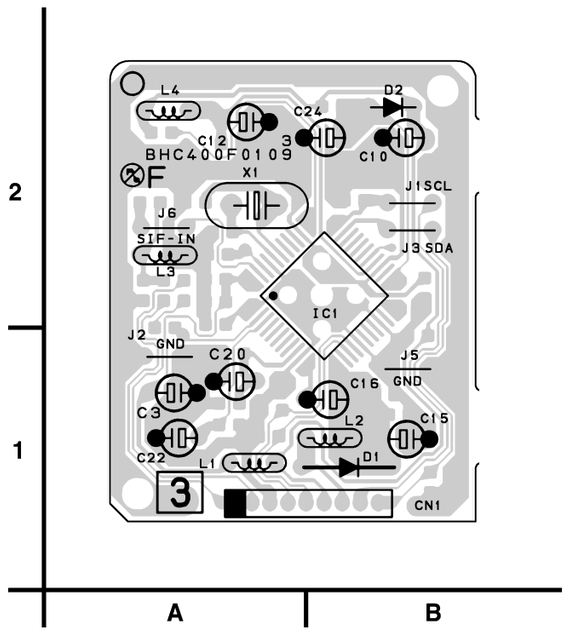


Jack-A CBA Bottom View

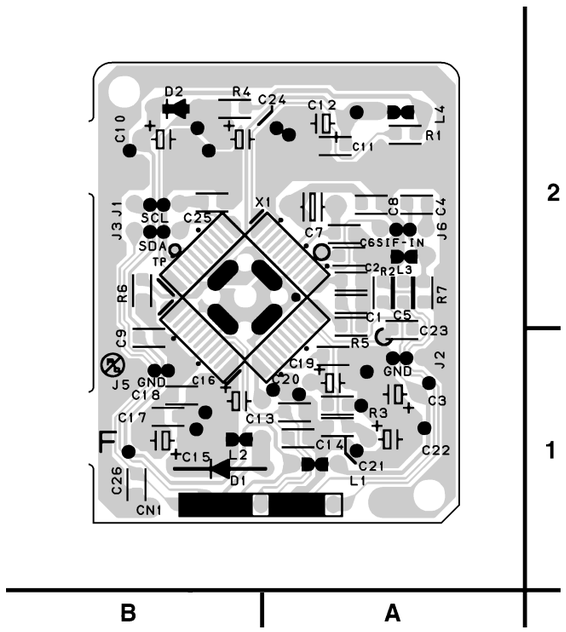


BH9700F01022C

AFV CBA Top View (B)



AFV CBA Bottom View (B)



BHC400F01093

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B

Power Supply CBA Top View

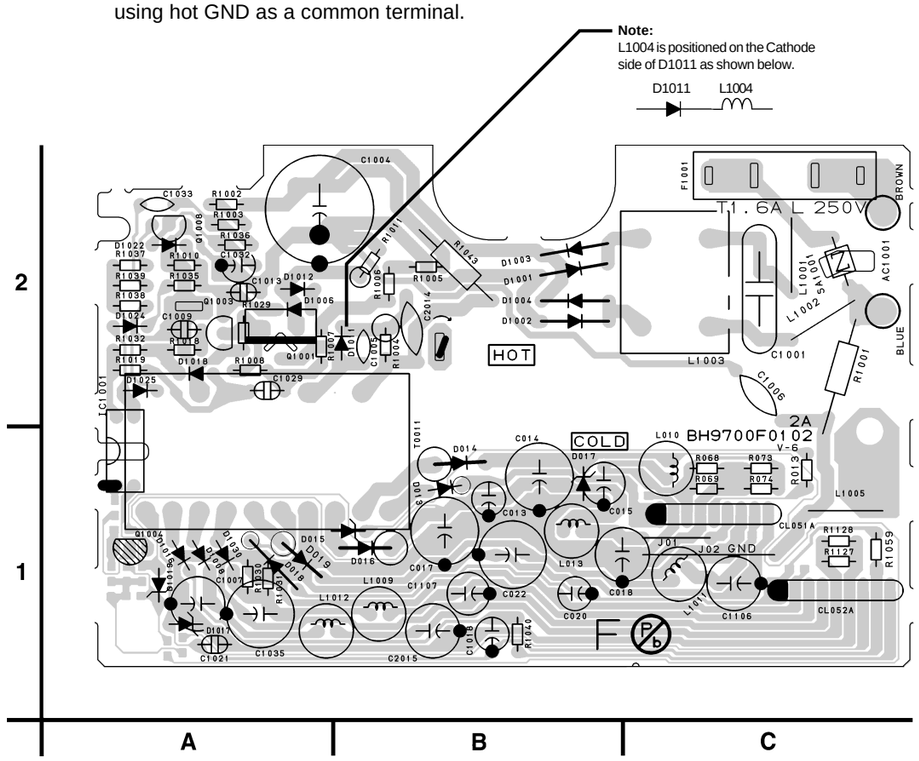
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

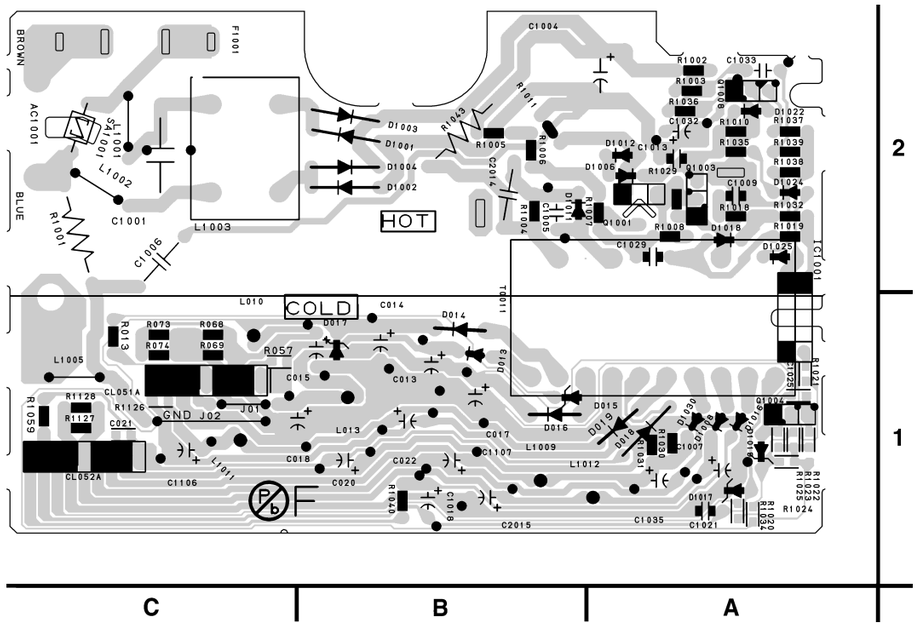
NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

Power Supply CBA Bottom View

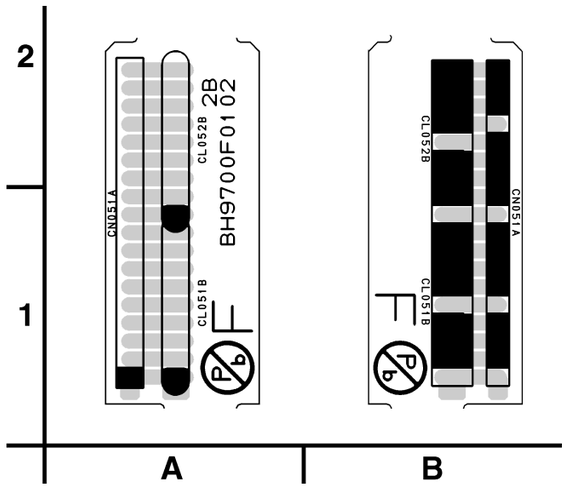
BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT , AN ISOLATION TRANSFORMER MUST BE USED. ALSO , IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY , WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT , A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.





BH9700F01022A

Junction CBA Top View



Junction CBA Bottom View

BH9700F01022B

DVD Main 1/3 Schematic Diagram < DVD Section >

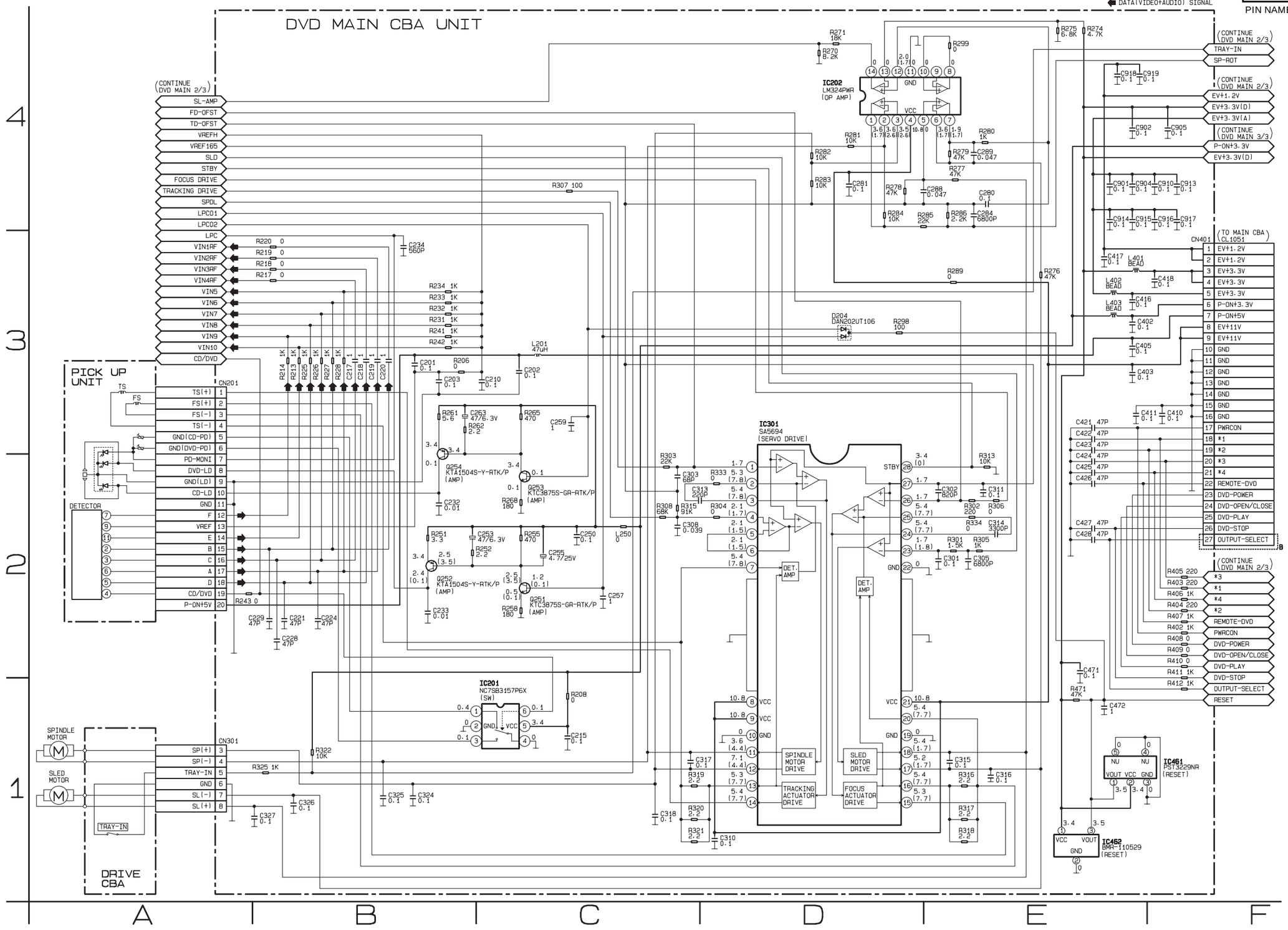
PIN NAME (*1~*4) CHART

MARK \ MODEL	A	B
*1	PLAY	FP-CLK
*2	SKIP-DOWN	FP-DIN
*3	DISC-IN	FP-STB
*4	SKIP-UP	FP-DOUT

PIN NAME MAY DIFFER BY MODELS.

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



DVD Main 2/3 Schematic Diagram < DVD Section >

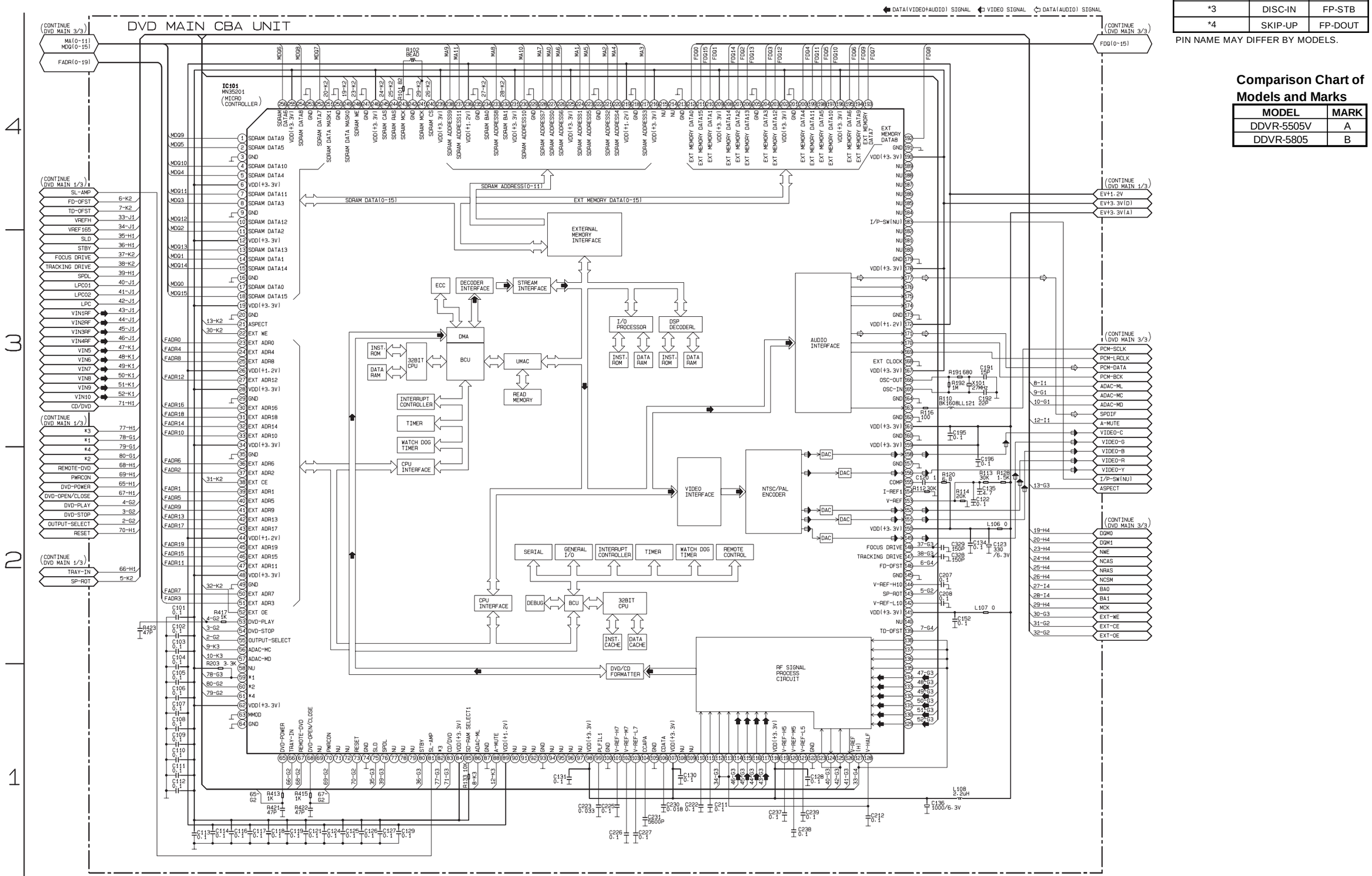
PIN NAME (*1~*4) CHART

MARK \ MODEL	A	B
*1	PLAY	FP-CLK
*2	SKIP-DOWN	FP-DIN
*3	DISC-IN	FP-STB
*4	SKIP-UP	FP-DOUT

PIN NAME MAY DIFFER BY MODELS.

Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B



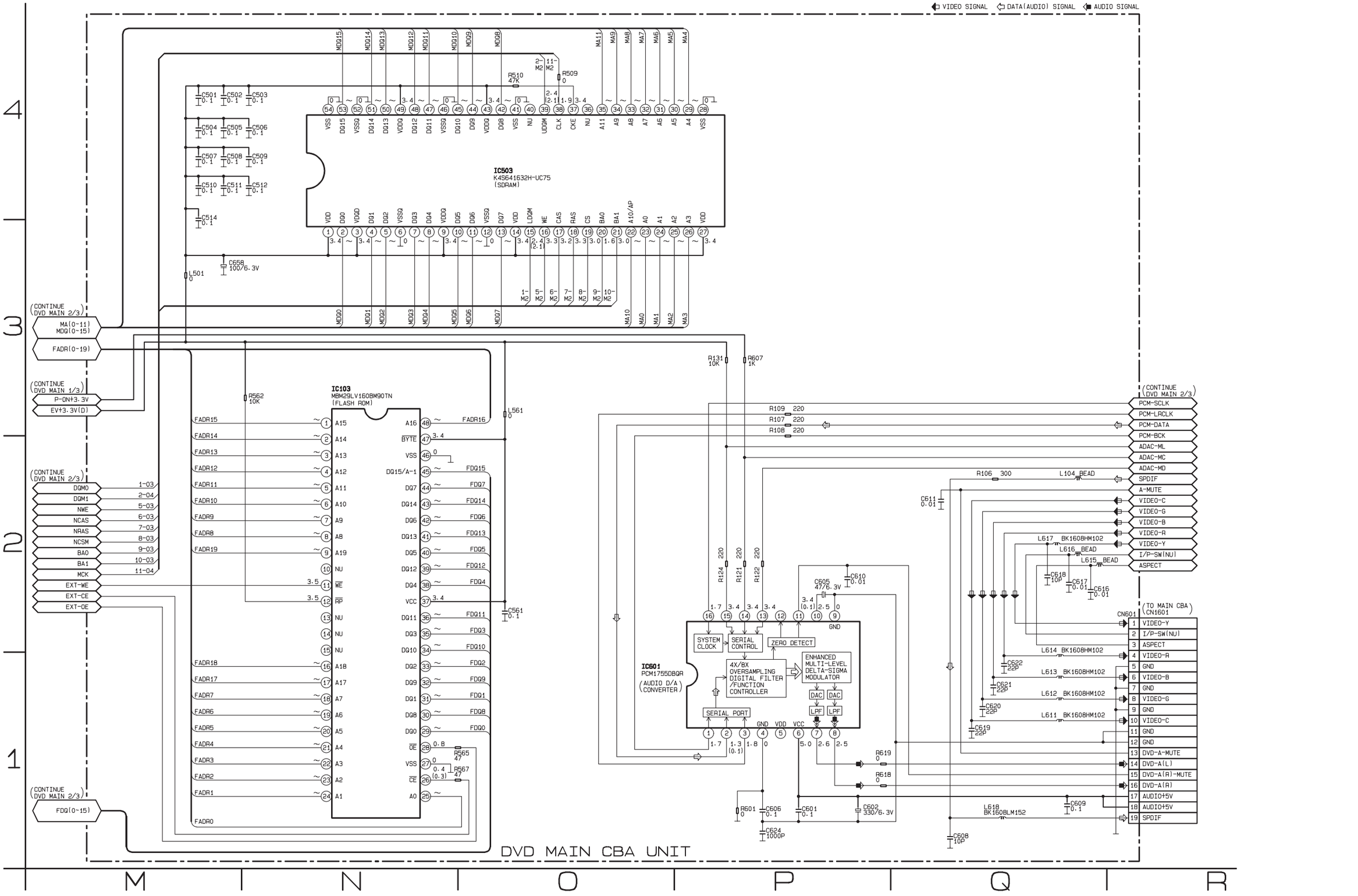
Comparison Chart of Models and Marks

MODEL	MARK
DDVR-5505V	A
DDVR-5805	B

IC101 VOLTAGE CHART

PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP
1	~	~	34	3.4	3.4	64	0	0	97	-----	-----	130	2.3	2.3	163	1.8	1.8	196	3.4	3.4	229	0	0
2	~	~	35	0	0	65	0	0	98	3.4	3.4	131	2.3	2.3	164	0	0	197	~	~	230	~	~
3	0	0	36	~	~	66	3.4	3.5	99	0.9	0.8	132	2.4	2.3	165	1.7	1.8	198	~	~	231	3.4	3.4
4	~	~	37	~	~	67	3.2	3.2	100	0	0	133	2.4	2.4	166	1.7	1.7	199	~	~	232	1.3	1.6
5	~	~	38	0.4	0.3	68	0	0	101	2.4	2.4	134	2.4	2.4	167	3.4	3.4	200	~	~	233	~	~
6	3.4	3.4	39	~	~	69	-----	-----	102	2.2	2.2	135	2.3	2.3	168	0	0	201	0	0	234	1.9	2.3
7	~	~	40	~	~	70	3.4	3.4	103	1.9	1.9	136	2.3	2.3	169	1.8	1.8	202	3.4	3.4	235	0	0
8	~	~	41	~	~	71	-----	-----	104	0.4	0.3	137	2.3	2.3	170	1.7	1.7	203	~	~	236	1.3	1.3
9	0	0	42	~	~	72	-----	-----	105	0	0	138	2.3	2.3	171	1.3	0.1	204	~	~	237	~	~
10	~	~	43	~	~	73	3.4	3.4	106	1.7	1.7	139	1.7	1.7	172	1.3	1.3	205	0	0	238	~	~
11	~	~	44	1.3	1.3	74	0	0	107	3.4	3.4	140	-----	-----	173	0	0	206	~	~	239	3.4	3.4
12	3.4	3.4	45	~	~	75	1.7	1.8	108	-----	-----	141	3.4	3.4	174	-----	-----	207	~	~	240	3.4	3.3
13	~	~	46	~	~	76	2.3	1.8	109	-----	-----	142	1.3	1.3	175	-----	-----	208	~	~	241	1.9	1.9
14	~	~	47	~	~	77	-----	-----	110	1.9	1.9	143	2.1	1.7	176	-----	-----	209	3.4	3.4	242	0	0
15	~	~	48	3.4	3.4	78	-----	-----	111	1.9	1.9	144	2.2	2.2	177	1.8	1.7	210	~	~	243	1.9	1.9
16	0	0	49	0	0	79	-----	-----	112	1.7	1.7	145	0	0	178	3.4	3.5	211	~	~	244	3.4	3.3
17	~	~	50	~	~	80	3.4	0.1	113	1.7	1.7	146	1.7	1.7	179	0	0	212	~	~	245	3.4	3.4
18	~	~	51	~	~	81	0.1	0.1	114	1.7	1.7	147	1.8	1.7	180	-----	-----	213	0	0	246	3.4	3.4
19	3.4	3.4	52	0.8	0.8	82	2.8	2.8	115	1.7	1.7	148	1.7	1.7	181	-----	-----	214	-----	-----	247	0	0
20	0	0	53	0	0	83	0.1	0.1	116	1.7	1.7	149	0.6	0.5	182	-----	-----	215	-----	-----	248	3.3	3.4
21	0.1	0.1	54	0	0	84	3.4	3.4	117	1.7	1.7	150	3.4	3.4	183	3.5	3.5	216	3.4	3.4	249	3.2	3
22	3.5	3.5	55	1.4	1.4	85	0.1	0.1	118	3.4	3.4	151	0.5	0.6	184	-----	-----	217	~	~	250	0	0
23	~	~	56	3.4	3.4	86	3.6	3.4	119	2.0	2.0	152	0.5	0.4	185	-----	-----	218	0	0	251	3.2	3.0
24	~	~	57	3.5	3.5	87	0	0	120	1.7	1.7	153	1.4	1.3	186	-----	-----	219	1.3	1.3	252	~	~
25	~	~	58	-----	-----	88	3.5	0.1	121	1.5	1.5	154	1.4	1.3	187	-----	-----	220	~	~	253	0	0
26	1.3	1.3	59 (A)	0.6	3.4	89	1.3	1.3	122	0	0	155	2.4	2.4	188	-----	-----	221	~	~	254	~	~
27	~	~	59 (B)	3.4	3.4	90	-----	-----	123	0.3	0.1	156	3.4	3.4	189	-----	-----	222	0	0	255	3.4	3.4
28	3.4	3.4	60 (A)	0	0	91	-----	-----	124	1.2	0.1	157	0	0	190	3.4	3.5	223	~	~	256	~	~
29	0	0	60 (B)	3.4	3.4	92	-----	-----	125	0.3	0.1	158	0.9	0.9	191	0	0	224	~	~			
30	~	~	61 (A)	0	0	93	0	0	126	0.1	0.1	159	3.4	3.4	192	~	~	225	3.4	3.4			
31	~	~	61 (B)	3.5	3.5	94	-----	-----	127	2.3	2.3	160	0	0	193	~	~	226	~	~			
32	~	~	62	3.4	3.4	95	-----	-----	128	1.7	1.7	161	3.4	3.4	194	~	~	227	~	~			
33	~	~	63	0	0	96	-----	-----	129	2.3	2.3	162	0	0	195	~	~	228	~	~			

DVD Main 3/3 Schematic Diagram < DVD Section >



WAVEFORMS

NOTE:

Input

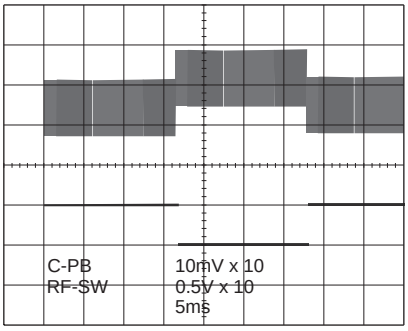
VCR: COLOR BAR SIGNAL
(WF1~WF3)

DVD: POWER ON (STOP) MODE
(WF4~WF6)

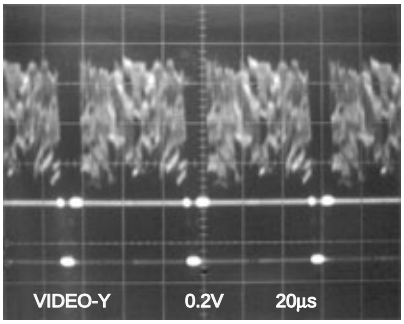
CD: 1kHz PLAY
(WF7~WF9)

WF2 UPPER TP301

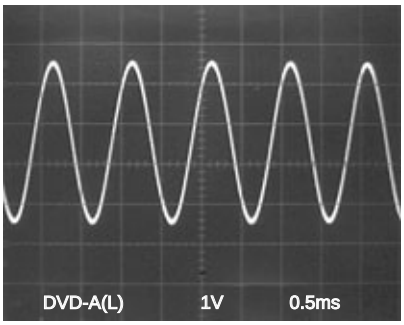
WF1 LOWER TP504



WF4 Pin 1 of CN1601

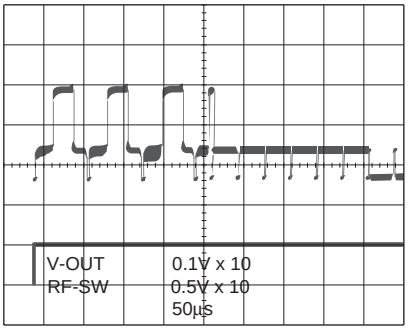


WF7 Pin 14 of CN1601

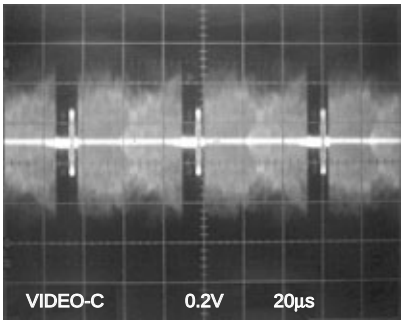


WF3 UPPER TP751

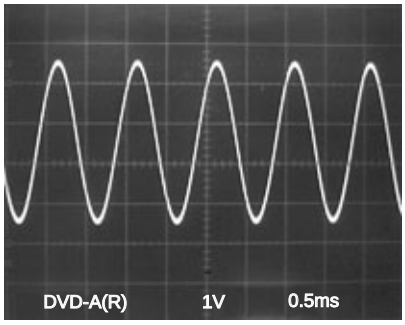
WF1 LOWER TP504



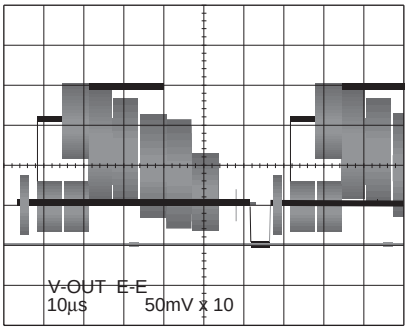
WF5 Pin 10 of CN1601



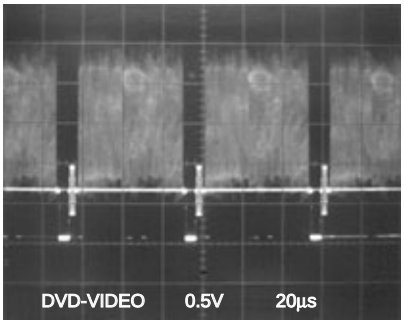
WF8 Pin 16 of CN1601



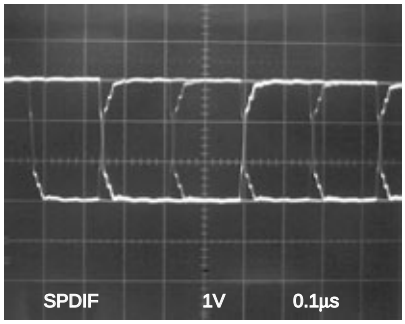
WF3 TP751



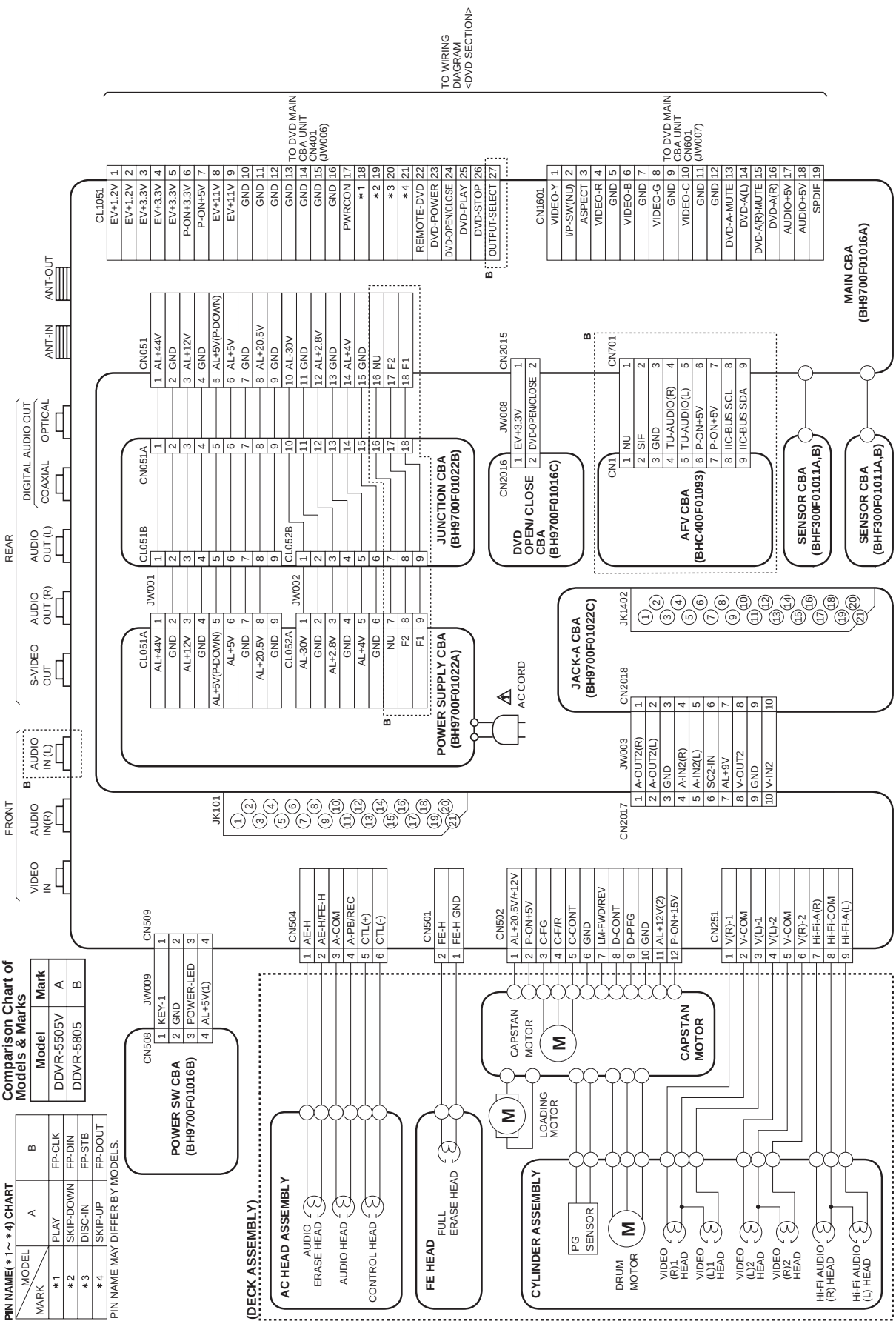
WF6 Pin 6 of IC1403



WF9 Pin 19 of CN1601



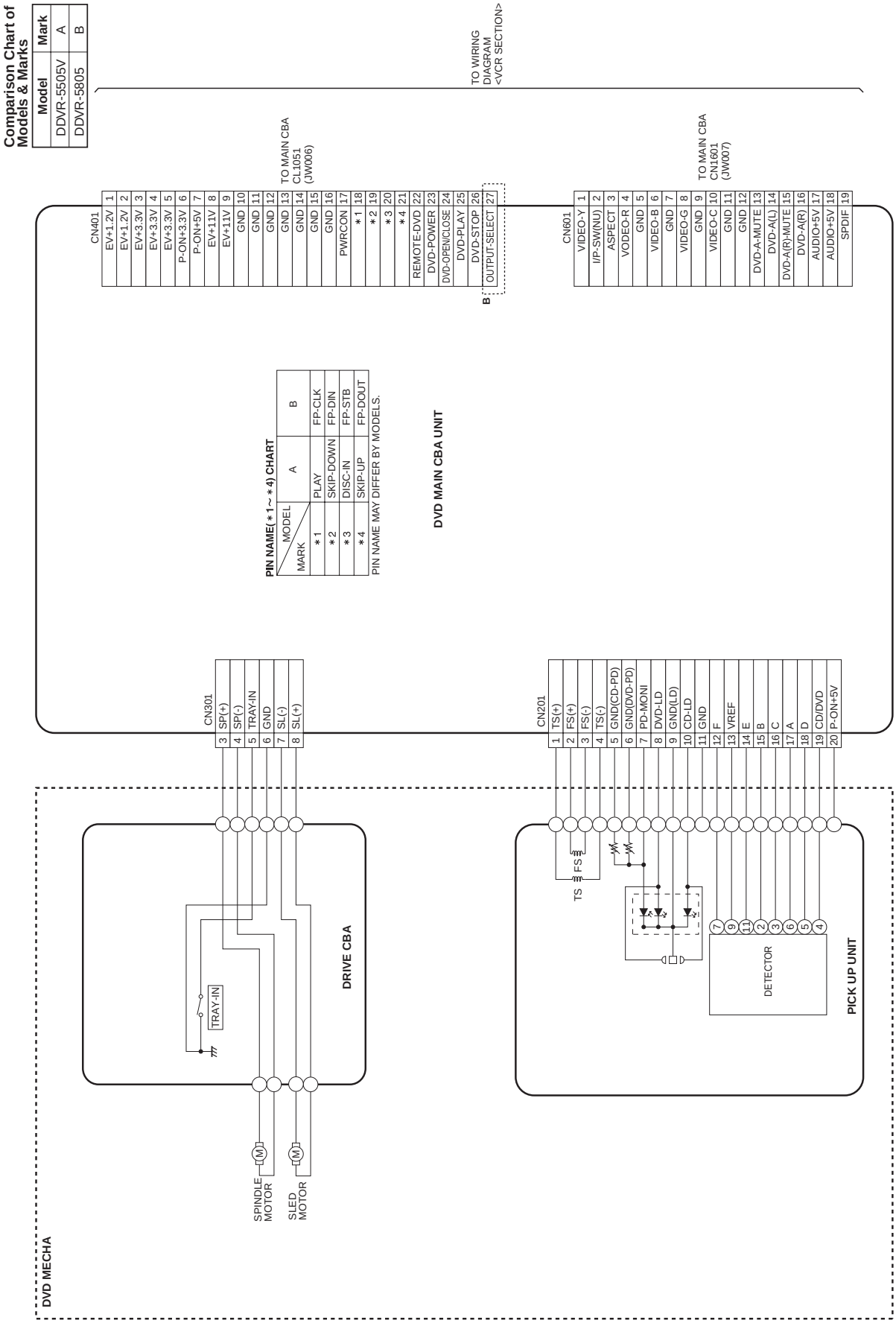
WIRING DIAGRAM < VCR SECTION >



MODEL / MARK	A	B
* 1	PLAY	FP-CLK
* 2	SKIP-DOWN	FP-DIN
* 3	DISC-IN	FP-STB
* 4	SKIP-UP	FP-DOUT

Model	Mark
DDVR-5505V	A
DDVR-5805	B

WIRING DIAGRAM < DVD SECTION >



IC PIN FUNCTION DESCRIPTIONS

[VCR Section]

Comparison Chart of Models and Marks

Model	Mark
DDVR-5505V	A
DDVR-5805	B

IC501(SERVO / SYSTEM CONTROL IC)

"H" ≥ 4.5V, "L" ≤ 1.0V

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
1		IN	SC2-IN	Input Signal from Pin 8 of SCART2	A/D
2		IN	PG-DELAY	Video Head Switching Pulse Signal Adjusted Voltage	A/D
3		IN	POW-SAF	P-ON Power Detection Input Signal	A/D
4		IN	END-S	Tape End Position Detect Signal	A/D
5		IN	AFC	Automatic Frequency Control Signal	A/D
6		IN	V-ENV	Video Envelope Comparator Signal	A/D
7		IN	KEY-1	Key Scan Input Signal 1	A/D
8		IN	KEY-2	Key Scan Input Signal 2	A/D
9		IN	LD-SW	Deck Mode Position Detector Signal	A/D
10		IN	ST-S	Tape Start Position Detector Signal	A/D
11		-	NU	Not Used	-
12		-	NU	Not Used	-
13		OUT	D-V-SYNC	Dummy V-sync Output	H/Hi-z
14		IN	REMOTE -VIDEO	Remote Control Sensor	L
15		OUT	C-ROTA	Color Phase Rotary Changeover SIgnal	H/L
16		OUT	H-A-SW	Video Head Amp Switching Pulse	H/L
17		IN	H-A-COMP	Head Amp Comparator Signal	H/L
18		OUT	RF-SW	Video Head Switching Pulse	H/L
19	A	-	NU	Not Used	-
	B	OUT	Hi-Fi-H-SW	HiFi Audio Head Switching Pulse	H/L
20	A	OUT	FRONT-AV	Front AV Output Signal	H/L
	B	-	NU	Not Used	-
21		OUT	DVD-POWER	DVD Power Control Signal	H
22		OUT	TUN-SW2	Tuner System Control Signal Output	H/L
23		OUT	POWER-LED	"POWER" LED Signal Output	H/L
24		-	NU	Not Used	-
25	A	OUT	TIMER-LED	"TIMER" LED Signal Output	H
	B	-	NU	Not Used	-
26	A	OUT	REC-LED	Recording LED Control Signal	H
	B	-	NU	Not Used	-
27		-	NU	Not Used	-
28	A	-	NU	Not Used	-
	B	OUT	LINE-MUTE	Audio Mute Control Signal	H
29		OUT	DVD-LED	"DVD" LED Signal Output	H/L
30		OUT	VCR-LED	"VCR" LED Signal Output	H/L
31		IN	REC-SAF-SW	Recording Safety SW Detect (With Record tab="L"/ With out Record tab="H")	H/L
32	A	-	NU	Not Used	-
	B	IN	A-MODE	Hi-Fi Tape Detection Signal	L
33		OUT	D-REC-H	Delayed Record Signal	H

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
34		IN	RESET	System Reset Signal (Reset="L")	L
35		IN	XCin	Sub Clock	-
36		OUT	XCOUT	Sub Clock	-
37		-	Vcc	Vcc	-
38		IN	Xin	Main Clock Input	-
39		OUT	Xout	Main Clock Input	-
40		-	GND	Vss(GND)	-
41		OUT	INPUT SELECT	Input Selector Control Signal	H/L
42		IN	DVD-8PIN-IN	SCART 8Pin DVD Input Control Signal	H/L
43		IN	CLKSEL	Clock Select (GND)	L
44		IN	OSCin	Clock Input for letter size	-
45		OUT	OSCout	Clock Output for letter size	-
46		-	NUB	Not Used	-
47		IN	LP	LP	-
48		IN	FSC-IN [4.43MHz]	4.43MHz Clock Input	-
49		-	OSDVss	OSDVss	-
50		IN	OSD-V-IN	OSD Video Signal Input	-
51		-	NU	Not Used	-
52		OUT	OSD-V-OUT	OSD Video Signal Output	-
53		-	OSDVcc	OSDVcc	-
54		-	HLF	LPF Connected Terminal (Slicer)	-
55		IN	COLOR-IN	SECAM or MESECAM Chroma Video Input Signal at Super Impose	-
56		-	NU	Not Used	-
57		-	NU	Not Used	-
58		IN	C-SYNC	Composite Synchronized Pulse	PULSE
59		OUT	8POUT-1	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2	H/L
60		OUT	8POUT-2	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2	Hi-z/L
61		-	NU	Not Used	-
62	A	OUT	AUDIO-SW1	Audio IN/OUT Control Signal	H/L
	B	-	NU	Not Used	-
63	A	OUT	AUDIO-SW2	Audio IN/OUT Control Signal	H/L
	B	-	NU	Not Used	-
64		-	NU	Not Used	-
65		-	NU	Not Used	-
66		OUT	C-POW-SW	Capstan Power Switching Signal	H/L
67		OUT	P-ON-H	Power On Signal at High	H
68	A	-	NU	Not Used	-
	B	OUT	DRV-DATA	VFD Driver IC Control Data	H/L
69	A	-	NU	Not Used	-
	B	OUT	DRV-STB	VFD Driver IC Chip Select Signal	H/L
70	A	-	NU	Not Used	-
	B	OUT	DRV-CLK	VFD Driver IC Control Clock	H/L
71		OUT	IIC-BUS SCL	IIC BUS Control Clock	H/L
72		IN/ OUT	IIC-BUS SDA	IIC BUS Control Data	H/L
73		-	NU	Not Used	-
74		-	NU	Not Used	-
75		IN	DVD-POWER-MONITOR	DVD Power Monitor Signal (P-off="L", P-on="H")	H/L
76		OUT	C-CONT	Capstan Motor Control Signal	PWM
77		OUT	D-CONT	Drum Motor Control Signal	PWM
78		OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/ REV="H")	H/L
79		IN	S-REEL	Supply Reel Rotation Signal	PULSE

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
80		IN	T-REEL	Take Up Reel Rotation Signal	PULSE
81		OUT	LM-FWD/ REV	Loading Motor Control Signal	H/L/ Hi-z
82		OUT	OUTPUT-SELECT	Output Select	H/L
83		OUT	A-MUTE-H	Audio Mute Control Signal (Mute = “H”)	H
84		-	NU	Not Used	-
85		-	NU	Not Used	-
86		IN	P-DOWN-L	Power Voltage Down Detector Signal	L
87		IN	C-FG	Capstan Motor Rotation Detection Pulse	PULSE
88		-	NU	Not Used	-
89		-	NU	Not Used	-
90		IN	D-PFG	Drum Motor Phase/ Frequency Generator	PULSE
91		-	AMPVREF OUT	V-Ref for CTL AMP	-
92		-	AMPVREF in	V-Ref for CTL AMP	-
93		-	P80/C	P80/C Terminal	-
94		IN/ OUT	CTL (-)	Playback/ Record Control Signal (-)	H/L
95		IN/ OUT	CTL (+)	Playback/ Record Control Signal (+)	H/L
96		-	AMPC	CTL AMP Connected Terminal	-
97		-	CTLAMP out	To Monitor for CTL AMP Output	PULSE
98		-	AMPVcc	AMPVcc	-
99		-	AVcc	A/D Converter Power Input/ Standard Voltage Input	-
100		IN	AGC	IF AGC Comparator Signal	A/D

Notes:

Abbreviation for Active Level:

PWM -----Pulse Wide Modulation

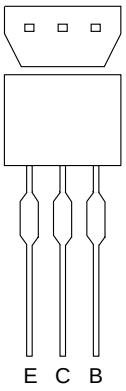
A/D--------Analog - Digital Converter

IC612 (FIP DRIVER)

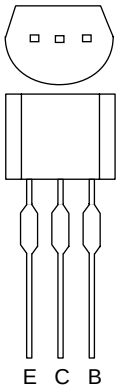
[DDVR-5805]

Pin No.	IN/ OUT	Signal Name	Name Function
1	IN	FP-CLK	Clock Input
2	IN	FP-STB	Serial Interface Strobe
3	-	NU	Not Used
4	-	NU	Not Used
5	-	VSS	GND
6	-	VDD	Power Supply
7	OUT	a	Segment Output
8		b	
9		c	
10		d	
11		e	
12		f	
13		g	
14		h	
15	-	VEE	Pull Down Level
16	OUT	i	Segment Output
17	OUT	7G	Grid Output
18		6G	
19		5G	
20		4G	
21		3G	
22		2G	
23		1G	
24	-	VDD	Power Supply
25	-	VSS	GND
26	IN	OSC	Oscillator Input
27	-	NU	Not Used
28	IN	FP-DIN	Serial Data Input

LEAD IDENTIFICATIONS

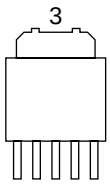


2SA1175(F,H,J)
2SC2785(F,H,J)
BA1F4M-T
BN1F4M-T
BN1L4M-T
KRA103M
KRC103M
KTA1267(GR,Y)
KTC3199(BL,GR,Y)
RN2204(TE4,T)



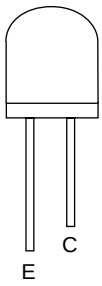
2SA1015-GR(TPE2)
2SA1020(Y)
2SC1815-BL(TPE2)
2SC1815-GR(TPE2)
2SC1815-Y(TPE2)
2SC2120-Y(TPE2)
2SC3266-Y(TPE2)
KTA1266(GR)
KTA1281(Y)
KTC3203(Y)
KTC3205(Y)

PQ070XZ5MZP



1: Vin
2: Vc
3: Vo
4: Vadj
5: GND

MID-32A22F
PT204-6B-12



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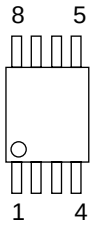
NJM4558D
RC4580IP



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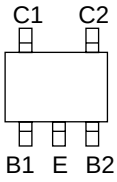

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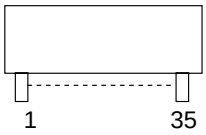
7-BT-298NY



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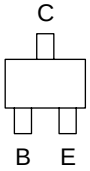
KRC103S RTK
KTC3875Y-RTK



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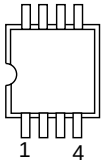
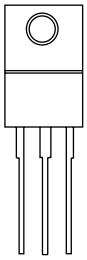
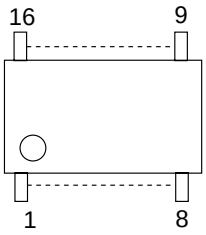


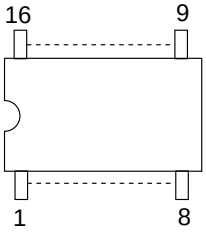
2SK3566



MM1637XVBE

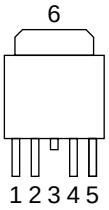


BU4052BCF-E2
BU4053BCF-E2
CD4052BCSJX
CD4052BNSR
CD4053BCSJX
CD4053BNSR
TC4052BF(EL)
TC4053BF(N)



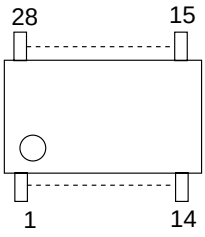
EL817A
EL817B
LTV-817B-F
PS2561A-1(Q,W)

BA3948FP-E2



1: CTL
2: Vcc
3: N.C.
4: OUT
5: C
6: GND

PT6313-S-TP



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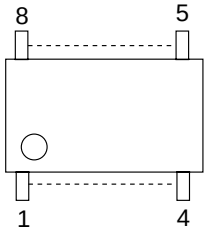
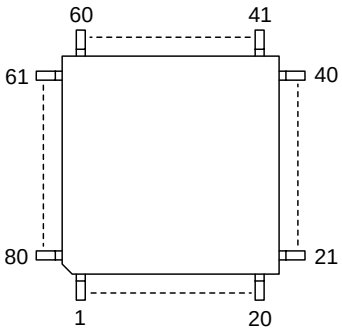
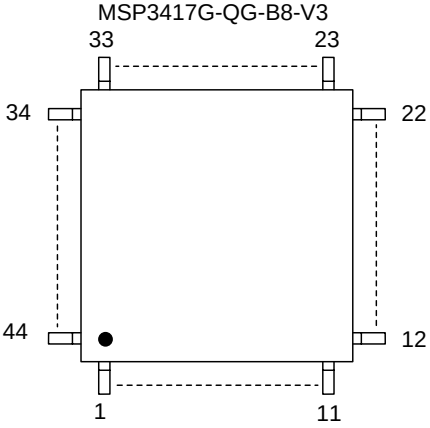


LA72648M-MPB-E



MSP3417G-QG-B8
MSP3417G-QG-B8-V3



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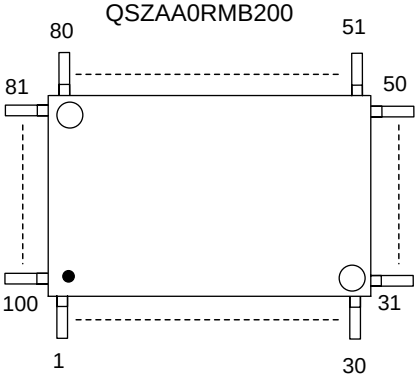

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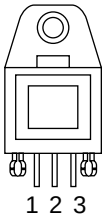
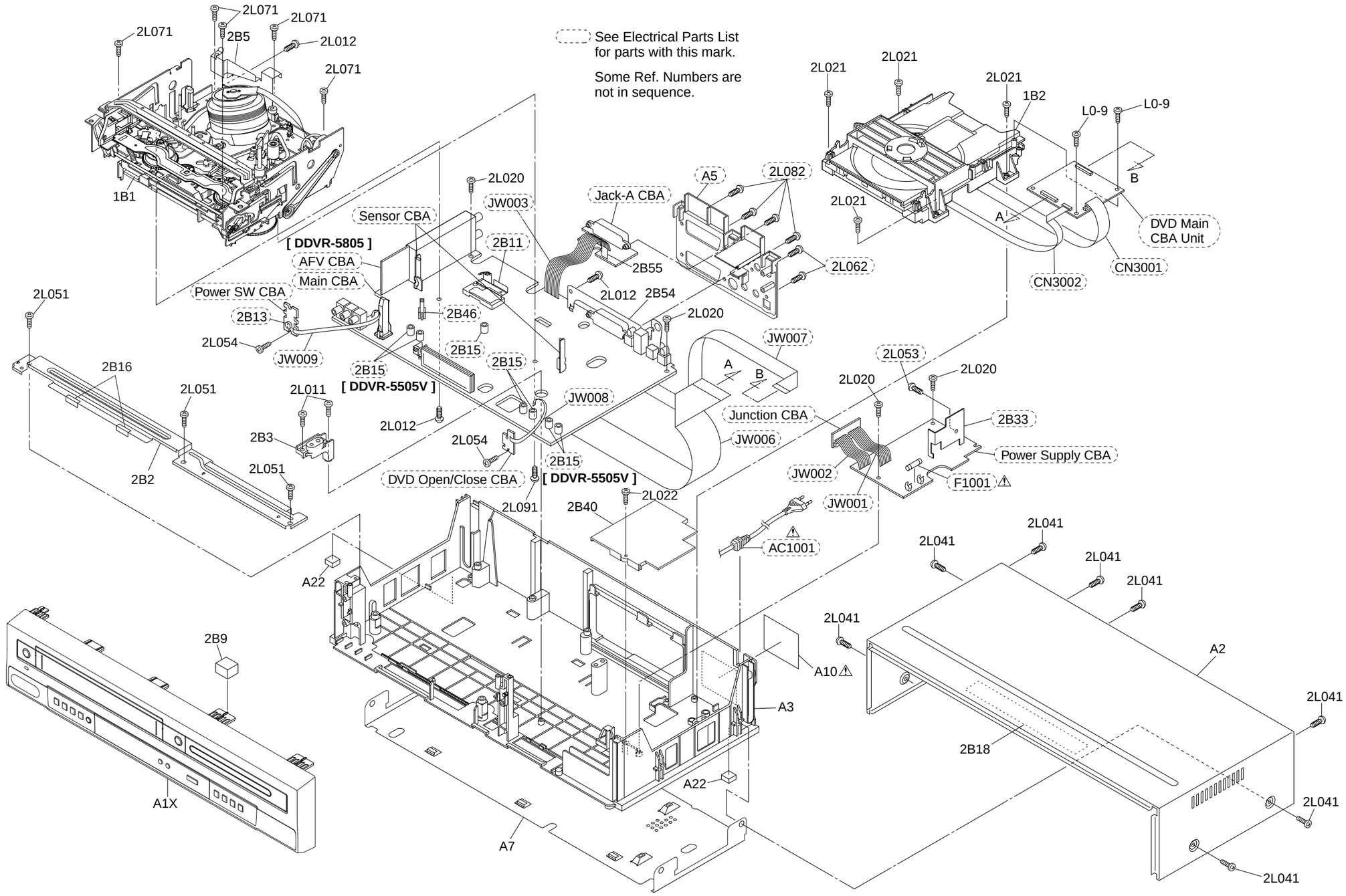


Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

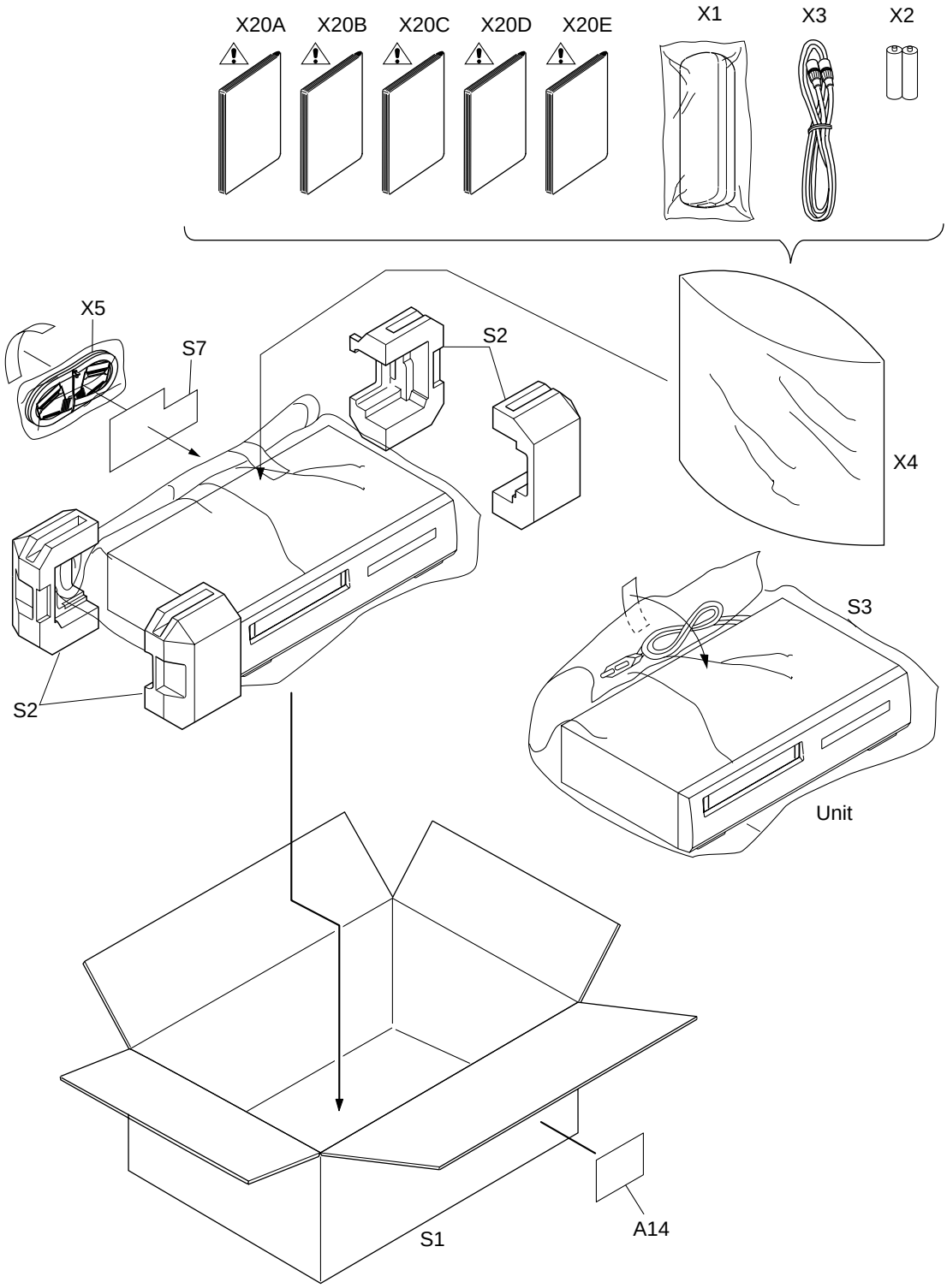
EXPLODED VIEWS

Cabinet



Packing

Some Ref. Numbers are not in sequence.



MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

Comparison Chart of Models and Marks

Model	Mark
DDVR-5505V	A
DDVR-5805	B

Ref. No.	Mark	Description	Part No.
A1X	A	FRONT ASSEMBLY H9777ED	1VM220185
A1X	B	FRONT ASSEMBLY H9778ED	1VM220186
A2		TOP CASE(D5 PAL FTZ) H9700ED	0VM101358
A3		CHASSIS(D5 PAL FTZ) H9700ED	0VM000205
A7		PANEL, BOTTOM H9700ED	0VM204530
A10⚠	A	RATING LABEL(U) H9779ED or	----------
⚠	A	RATING LABEL(D) H9779ED	----------
A10⚠	B	RATING LABEL(U) H97H0ED or	----------
⚠	B	RATING LABEL(D) H97H0ED	----------
A14		LABEL, SERIAL NO. HE240ED	----------
A14	A	BARCODE LABEL H9779ED	----------
A14	B	BARCODE LABEL H97H0ED	----------
A21		WARNING LABEL HG249ED	----------
A22		CHASSIS FOOT H79P9JD	0VM412315
1B1	A	DECK ASSEMBLY CZD013/VM23C0	N23C0FL
1B1	B	DECK ASSEMBLY CZD013/VM23ED	N23E0FL
1B2		DVD MECHA(FG LESS) 0838 VCZL0500	N79F0HVM
2B2		TOP BRACKET H9700ED	0VM204531
2B3		RODER HOLDER H9600UD	0VM306676
2B5		SHEILD, CYLINDER H9700ED	0VM306780
2B9		CUSHION HC460ED	0VM413251
2B16		TAPE, HIMELON H9206JD	0VM413956
2B18		FIBER, TOP CASE HC460ED	0VM412906
2B40		PARTITION PLATE H9700ED	0VM306765
2B54		PLATE, GROUND(RCA) H9700ED	0VM306867
2B55		PLATE, GROUND(21P) H9700ED	0VM416444
2L011		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L012		SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
2L020		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L021		SCREW, P-TIGHT 3X12 BIND HEAD+	GBMP3120
2L022		P-TIGHT SCREW 3X8 BIND +	GBMP3080
2L041		SCREW, P-TIGHT 3X6 BIND HEAD+	GBCP3060
2L051		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L054		SCREW, P-TIGHT M3X6 BIND HEAD+	GBMP3060
2L071		SCREW, P-TIGHT M3X10 WASHER HEAD+	GCMP3100
2L091		SCREW, P-TIGHT M3X8 BIND HEAD+	GBCP3080
PACKING			
S1	A	GIFT BOX H9779ED	1VM320501
S1	B	GIFT BOX H97H0ED	1VM320499
S2		STYROFOAM H9600UD	0VM204474
S3		UNIT, BAG E5500UD	0VM411683
S7		21P PAD HC463FD	0VM413384
ACCESSORIES			

Ref. No.	Mark	Description	Part No.
X1		REMOTE CONTROL UNIT 364/CZF05DD	NB104ED
X2		DRY BATTERY R6P/2S or	XB0M451T0001
		DRY BATTERY ES-GR6M-C	XB0M571GLP01
X3		RF CORD PAL 1.2M or	WPZ0122LG001
		RF CABLE CC1001020012010	WPZ0122LW001
X4		ACCESSORY BAG K8092BA	0VM404632
X5		21P CABLE(BYR SUPPLY) H9300ED	0VMN03276
X20A⚠	A	OWNER'S MANUAL(EN) H9779ED	1VMN20304
X20A⚠	B	OWNER'S MANUAL(EN) H97H0ED	1VMN20270
X20B⚠	A	OWNER'S MANUAL(HU) H9779ED	1VMN20305
X20B⚠	B	OWNER'S MANUAL(HU) H97H0ED	1VMN20271
X20C⚠	A	OWNER'S MANUAL(CZ) H9779ED	1VMN20306
X20C⚠	B	OWNER'S MANUAL(CZ) H97H0ED	1VMN20272
X20D⚠	A	OWNER'S MANUAL(PO) H9779ED	1VMN20307
X20D⚠	B	OWNER'S MANUAL(PL) H97H0ED	1VMN20273
X20E⚠	A	OWNER'S MANUAL(SW) H9779ED	1VMN20308
X20E⚠	B	OWNER'S MANUAL(SW) H97H0ED	1VMN20274

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25%	D.....±0.5%	F.....±1%
G.....±2%	J.....±5%	K.....±10%
M.....±20%	N.....±30%	Z.....+80/-20%

Comparison Chart of Models and Marks

Model	Mark
DDVR-5505V	A
DDVR-5805	B

DVD MAIN CBA UNIT

Ref. No.	Mark	Description	Part No.
	A B	DVD MAIN CBA UNIT DVD MAIN CBA UNIT	N79GQHEP N79GNHBP

MCV CBA

Ref. No.	Mark	Description	Part No.
	A B	MCV CBA MCV CBA Consists of the following	1VSA10713 1VSA10706
		MAIN CBA(MCV-A) POWER SW CBA (MCV-B) DVD OPEN/CLOSE CBA(MCV-C) SENSOR CBA	--------- --------- --------- 1VSA10047

MAIN CBA

Ref. No.	Mark	Description	Part No.
		MAIN CBA (MCV-A) Consists of the following:	----------
		CAPACITORS	
C056		ELECTROLYTIC CAP. 47µF/25V M or	CE1EMASDL470
		ELECTROLYTIC CAP. 47µF/25V M	CE1EMASTL470
C057	B	ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
	B	ELECTROLYTIC CAP. 10µF/16V M	CE1CMASTL100
C058		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMASSL221
C059		ELECTROLYTIC CAP. 100µF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASTL101
C060		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C062		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C063		ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47µF/16V M	CE1CMASTL470
C068		CHIP CERAMIC CAP.(1608) CH J 470pF/50V or	CHD1JJ3CH471
		CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471
C104		ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASTL101
C107		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C109	B	CHIP CERAMIC CAP.(1608) CH J 470pF/50V or	CHD1JJ3CH471
	B	CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471
C112		CHIP CERAMIC CAP.(1608) CH J 470pF/50V or	CHD1JJ3CH471
		CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471
C113		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C114		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C116		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C117		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASTL1R0
C118		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C121		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C122		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C123		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C124		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C125		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C126		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C127		ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASTL100
C128		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C129		ELECTROLYTIC CAP. 100µF/16V M H7	CE1CMAVSL101
C130		ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMAVSL4R7
C131		ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMAVSL4R7
C132		ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMAVSL4R7
C133		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C134		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C135		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C136		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C151	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C152	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C153	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C154	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C155	A	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C156	A	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C159	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C251		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C252		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C253		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C254		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C301		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C302		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C303		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C305		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C306		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C307		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C308		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C309		CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
		CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C310		CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
		CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C311		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C312		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C313		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMASSL1R0
C314		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C315		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C316		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C317		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C318		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C319		CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
		CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C320		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C321		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C322		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C323		CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
		CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C324		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C325		CHIP CERAMIC CAP. B K 8200pF/50V	CHD1JK30B822
C326		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C328		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C329		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C331		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C333		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C334		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C335		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C336		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C337		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C339		CHIP CERAMIC CAP. CH J 120pF/50V or	CHD1JJ3CH121
		CHIP CERAMIC CAP. CG J 120pF/50V	CHD1JJ3CG121
C340		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C341		CHIP CERAMIC CAP.(1608) CH D 10pF/50V or	CHD1JD3CH100
		CHIP CERAMIC CAP.(1608) CG D 10pF/50V	CHD1JD3CG100
C342		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C343		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C344		ELECTROLYTIC CAP. 4.7µF/25V M NP H7	CP1EMAVSB4R7
C345		ELECTROLYTIC CAP. 0.47µF/50V M H7	CE1JMAVSLR47
C346		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104

Ref. No.	Mark	Description	Part No.
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C347		CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/16V	CHD1CK30B104
C349		ELECTROLYTIC CAP. 0.47µF/50V M H7	CE1JMAVSLR47
C350		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZTFZ104
C402		FILM CAP.(P) 0.018µF/100V J or	CMA2AJP00183
		FILM CAP.(P) 0.018µF/50V J or	CMA1JJP00183
		FILM CAP.(P) 0.018µF/50V J	CA1J183MS029
C403		CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C404		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMASSL221
C405		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C407		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C408		CHIP CERAMIC CAP. B K 1800pF/50V	CHD1JK30B182
C409		CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
		CHIP CERAMIC CAP. CG J 33pF/50V	CHD1JJ3CG330
C410		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C411		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C412		ELECTROLYTIC CAP. 33µF/6.3V M H7	CE0KMAVSL330
C413		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C414		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C415		ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C416	B	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C417		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C418		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C419	A	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	A	CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C419	B	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	B	CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C421		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C423	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C426	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	A	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	A	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C427	A	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	A	CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C429	A	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	A	CHIP CERAMIC CAP. CG J 68pF/50V	CHD1JJ3CG680
C451	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C452	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C453	B	ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C454	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104

Ref. No.	Mark	Description	Part No.
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C455	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C456	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C457	B	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C458	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C461	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C462	B	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C463	B	ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C464	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C465	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C466	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C467	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C468	B	ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C469	B	ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C470	B	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C471	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C472	B	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C473	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C474	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C475	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C476	B	ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C477	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C478	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C479	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C480	B	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C481	B	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C482	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C483	B	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C484	B	ELECTROLYTIC CAP. 4.7µF/25V M H7	CE1EMAVSL4R7
C485	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C486	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104

Ref. No.	Mark	Description	Part No.
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C487	B	ELECTROLYTIC CAP. 47µF/16V M H7	CE1CMAVSL470
C488	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C502		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 50V or	CHD1JK30B223
		CHIP CERAMIC CAP.(1608) B K 0.022µF/ 25V	CHD1EK30B223
C505		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C506		ELECTROLYTIC CAP. 220µF/6.3V M H7	CE0KMAVSL221
C507		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C508		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C509		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C510		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C511		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CHIP CERAMIC CAP.(1608) CG J 100pF/ 50V	CHD1JJ3CG101
C512		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C514		CHIP CERAMIC CAP. CH J 330pF/50V or	CHD1JJ3CH331
		CHIP CERAMIC CAP. CG J 330pF/50V	CHD1JJ3CG331
C515		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C516		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C517		CERAMIC CAP.(AX) F Z 0.022µF/25V	CCA1EZTFZ223
C518		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C519		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CG J 560pF/50V	CHD1JJ3CG561
C521		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C522		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C524		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C527		CERAMIC CAP.(AX) B K 100pF/50V	CCA1JKT0B101
C531		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C533		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C534		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMAVSL470
C535		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C536		CHIP CERAMIC CAP. CH J 560pF/50V or	CHD1JJ3CH561
		CHIP CERAMIC CAP. CG J 560pF/50V	CHD1JJ3CG561
C538		CHIP CERAMIC CAP. CH J 180pF/50V or	CHD1JJ3CH181
		CHIP CERAMIC CAP. CG J 180pF/50V	CHD1JJ3CG181
C539		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C540		CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C541		CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
		CHIP CERAMIC CAP. CG J 18pF/50V	CHD1JJ3CG180
C542		CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
		CHIP CERAMIC CAP. CG J 18pF/50V	CHD1JJ3CG180
C543		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C544		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C545		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C546		CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
		CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C547		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C548		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C549		ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
C550		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C553		ELECTROLYTIC CAP. 22µF/10V M H7	CE1AMAVSL220
C555		CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/16V	CHD1CK30B104
C612	B	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	CHD1JK30B472
C614	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C615	B	ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C616	B	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C702	A	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C703		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C704		CERAMIC CAP.(AX) SL J 39pF/50V	CCA1JJTSL390
C706		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 50V or	CHD1JK30B473
		CHIP CERAMIC CAP.(1608) B K 0.047µF/ 25V	CHD1EK30B473
C707	A	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C709		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C710	A	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C711		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C712		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C714		CHIP CERAMIC CAP. B K 1500pF/50V	CHD1JK30B152
C715	B	CHIP CERAMIC CAP. F Z 0.22µF/16V or	CHD1CZ30F224
	B	CHIP CERAMIC CAP. FZ Z 0.22µF/25V	CHD1EZ3FZ224
C716	B	CHIP CERAMIC CAP. F Z 0.22µF/16V or	CHD1CZ30F224
	B	CHIP CERAMIC CAP. FZ Z 0.22µF/25V	CHD1EZ3FZ224
C751		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C752		ELECTROLYTIC CAP. 47µF/10V M H7	CE1AMAVSL470
C753		ELECTROLYTIC CAP. 4.7µF/50V M or	CE1JMASDL4R7
		ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASTL4R7
C754		ELECTROLYTIC CAP. 4.7µF/50V M H7	CE1JMASSL4R7
C755		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C756		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C757		ELECTROLYTIC CAP. 47µF/6.3V M H7	CE0KMASSL470
C758		CERAMIC CAP.(AX) Y M 0.01µF/16V	CCA1CMT0Y103
C783	B	CHIP CERAMIC CAP.(1608) CH J 470pF/50V or	CHD1JJ3CH471
	B	CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471

Ref. No.	Mark	Description	Part No.
C784		CHIP CERAMIC CAP.(1608) CH J 470pF/50V or	CHD1JJ3CH471
		CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471
C1039		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1040		ELECTROLYTIC CAP. 100µF/6.3V M or	CE0KMASDL101
		ELECTROLYTIC CAP. 100µF/6.3V M	CE0KMASTL101
C1042		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1056		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1201		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1202		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C1205		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C1206		CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
		CHIP CERAMIC CAP. CG J 220pF/50V	CHD1JJ3CG221
C1207		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1208		CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
		CHIP CERAMIC CAP. CG J 47pF/50V	CHD1JJ3CG470
C1221		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C1222		ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASTL100
C1223		CHIP CERAMIC CAP.(1608) CH J 1000pF/ 50V or	CHD1JJ3CH102
		CHIP CERAMIC CAP. CG J 1000pF/50V	CHD1JJ3CG102
C1224		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1245		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1246		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1247		ELECTROLYTIC CAP. 470µF/16V M or	CE1CMASDL471
		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASTL471
C1249		ELECTROLYTIC CAP. 47µF/16V M or	CE1CMASDL470
		ELECTROLYTIC CAP. 47µF/16V M	CE1CMASTL470
C1351		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C1352		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1353		CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/16V	CHD1CK30B104
C1354		CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
		CHIP CERAMIC CAP.(1608) CG J 100pF/ 50V	CHD1JJ3CG101
C1355		CHIP CERAMIC CAP. F Z 1µF/10V or	CHD1AZB0F105
		CHIP CERAMIC CAP. F Z 1µF/10V	CHD1AZ30F105
C1359		CHIP CERAMIC CAP. CH D 9pF/50V	CHD1JD3CH9R0
C1393		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1394		ELECTROLYTIC CAP. 47µF/6.3V M or	CE0KMASDL470
		ELECTROLYTIC CAP. 47µF/6.3V M	CE0KMASTL470

Ref. No.	Mark	Description	Part No.
C1421		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C1422		CHIP CERAMIC CAP.(1608) B K 0.1µF/25V or	CHD1EK30B104
		CHIP CERAMIC CAP.(1608) B K 0.1µF/16V	CHD1CK30B104
C1441		CHIP CERAMIC CAP.(1608) B K 0.33µF/10V	CHD1AK30B334
C1442		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1522		ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMAVSL100
C1523		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C1524		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C1535		CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	CHD1JK30B103
C1536		ELECTROLYTIC CAP. 22µF/6.3V M H7	CE0KMAVSL220
C2002		CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C2004		ELECTROLYTIC CAP. 100µF/6.3V H7	CE0KMAVSL101
C2012		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C2013	A	ELECTROLYTIC CAP. 1µF/50V M H7	CE1JMAVSL1R0
CONNECTORS			
CN051	A	CONNECTOR BASE, 15P TUC-P15P-B1	J3TUA15TG001
CN051	B	CONNECTOR BASE, 18P TUC-P18P-B1	J3TUA18TG001
CN701	B	AFV PCB ASSEMBLY CPD0500/9701	H9701AFV
DIODES			
D051		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D052		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D054	A	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
D054	B	ZENER DIODE DZ-10BSBT265 or	NDTB00DZ10BS
	B	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D056		ZENER DIODE DZ-18BSBT265 or	NDTB00DZ18BS
		ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D057		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D101		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D102	B	ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
	B	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D103		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D104	B	ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
	B	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D105	B	ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
	B	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D106		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D107		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D108		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D109		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D110		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D111	A	ZENER DIODE DZ-5.1BSCT265 or	NDTC0DZ5R1BS
	A	ZENER DIODE MTZJT-775.1C	QDTC0MTZJ5R1

Ref. No.	Mark	Description	Part No.
D115		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D118		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D119		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D121		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D301		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D501	A	LED(RED) 204HD/E	NPQZ00204HDE
D502		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D503		LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D504	A	LED(RED) 204HD/E	NPQZ00204HDE
D510		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D511		ZENER DIODE DZ-7.5BSAT265 or	NDTA0DZ7R5BS
		ZENER DIODE MTZJT-777.5A	QDTA0MTZJ7R5
D512		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D555		LED MIE-534A2 or	NPZZM1E534A2
		LED SIR-563ST3F P or	QPQPS1R563ST
		LED SIR-563ST3F Q	QPQQS1R563ST
D611	B	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	B	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D612	B	PCB JUMPER D0.6-P5.0	JW5.0T
D613	B	PCB JUMPER D0.6-P5.0	JW5.0T
D701		ZENER DIODE DZ-33BSDT265 or	NDTD00DZ33BS
		ZENER DIODE MTZJT-7733D	QDTD00MTZJ33
D1031		PCB JUMPER D0.6-P5.0	JW5.0T
D1052		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1053		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1054		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1057		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1301		ZENER DIODE DZ-5.6BSBT265 or	NDTB0DZ5R6BS
		ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D2001	A	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2002	A	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
ICS			
IC102		DRIVER FOR DVD MM1637XVBE	QSZBA0TMM102
IC151	A	IC:SWITCHING CD4052BCSJX or	NSZBA0TF3079
	A	IC:SWITCHING BU4052BCF-E2 or	QSZBA0TRM024
	A	IC:SWITCHING TC4052BF(EL) or	QSZBA0TTS096
	A	IC:SWITCHING CD4052BNSR	NSZBA0TTY091
IC301		IC:Y/C/A LA71750EM-MPB-E	QSZBA0RSY020
IC451	B	IC:HIFI LA72648M-MPB-E	QSZBA0RSY033
IC501		SYSCON IC M3776AMCA-AA8GP	QSZAA0RMB200
IC502		IC:EEPROM CAT24WC02JI or	NSZBA0SBG001
		IC BR24L02F-WE2	QSZBA0TRM068
IC611	B	V.F.D. 7-BT-298N or	TVFD150FT012
	B	V.F.D. 7-BT-298NY	TVFD150FT013
IC612	B	FL DRIVER IC PT6313-S-TP	NSZBA0TG2006
IC751		IC:SWITCH TC4053BF(N) or	QSMBA0STS002
		IC:SWITCH BU4053BCF-E2 or	QSMDA0TRM010
		IC:ANALOG MULTIPLEXERS CD4053BCSJX or	NSZBA0TF3071
		IC:ANALOG MULTIPLEXER CD4053BNSR	NSZBA0TTY093

Ref. No.	Mark	Description	Part No.
IC1002		VOLTAGE REGULATOR PQ070XZ5MZP	QSZBA0TSH034
IC1003		VOLTAGE REGULATOR BA3948FP-E2	QSZBA0TRM073
IC1201		IC:OP AMP KIA4558P or	NSZBA0SJY004
		IC:OP AMP NJM4558D or	QSZBA0SJR006
		IC:OP AMP RC4580IP	NSZBA0STY173
IC1204		FIBER OPTIC TRANS.MODULE 0C-0805T*002 or	JWHHA00JD002
		FIBER OPTIC TRANS.MODULE GP1FA513TZ	JWHHA00SH005
IC1403		DRIVER FOR DVD MM1636XWRE	QSZBA0TMM108
IC1404		IC:SWITCH TC4053BF(N) or	QSMBA0STS002
		IC:SWITCH BU4053BCF-E2 or	QSMDA0TRM010
		IC:ANALOG MULTIPLEXERS CD4053BCSJX or	NSZBA0TF3071
		IC:ANALOG MULTIPLEXER CD4053BNSR	NSZBA0TTY093
COILS			
L053		INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L101		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L121		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
L122		CHOKE COIL 47µH-K or	LLBD00PKV007
		CHOKE COIL 47µH-K or	LLBD00PKV005
		CHOKE COIL 47µH-K	LLBD00PKT001
L251		INDUCTOR 5.6µH-K-26T	LLAXKATTU5R6
L302		INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L402		INDUCTOR 47µH-K-5FT	LLARKBSTU470
L451	B	INDUCTOR 47µH-K-5FT	LLARKBSTU470
L452	B	PCB JUMPER D0.6-P5.0	JW5.0T
L501		INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L502		PCB JUMPER D0.6-P5.0	JW5.0T
L503		INDUCTOR 1.8µH-K-26T	LLAXKATTU1R8
L701		INDUCTOR 15µH-K-26T	LLAXKATTU150
L702		PCB JUMPER D0.6-P5.0	JW5.0T
L704		PCB JUMPER D0.6-P5.0	JW5.0T
L1251		INDUCTOR(0.47µH K) LAP02TAR47K	LLAXKATTUR47
L1351		INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L1521		CHOKE COIL 47µH-K or	LLBD00PKV007
		CHOKE COIL 47µH-K or	LLBD00PKV005
		CHOKE COIL 47µH-K	LLBD00PKT001
L1522		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
L2001		INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
TRANSISTORS			
Q051		TRANSISTOR KTA1281(Y) or	NQSY0KTA1281
		TRANSISTOR 2SA1020(Y)	QQSY02SA1020
Q052		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q053		TRANSISTOR RN2204(TE4,T) or	QQSZ00RN2204
		RES. BUILT-IN TRANSISTOR BN1L4M-T	QQSZ00BN1L4M
Q054		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q055	B	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	B	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	B	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	B	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	B	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	B	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	B	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q056		TRANSISTOR KTC3205(Y) or	NQSY0KTC3205
		TRANSISTOR 2SC3266-Y(TPE2)	QQSY02SC3266
Q057		RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q058		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015

Ref. No.	Mark	Description	Part No.
Q059		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q104		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q107		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q108		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q156	A	CHIP TRANSISTOR KTC3875Y-RTK	NQ1Y0KTC3875
Q157	A	CHIP TRANSISTOR KTC3875Y-RTK	NQ1Y0KTC3875
Q302		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q401		CHIP TRANSISTOR FMG4A T148 or	QQ2Z000FMG4A
		CHIP TRANSISTOR RN1511(TE85R)	QQ2Z00RN1511
Q403		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q404		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q405		RES. BUILT-IN TRANSISTOR KRA103M or	NQSZ0KRA103M
		RES. BUILT-IN TRANSISTOR BN1F4M-T	QQSZ00BN1F4M
Q406		CHIP TRANSISTOR KTC3875Y-RTK	NQ1Y0KTC3875
Q451	B	CHIP TRANSISTOR KRC103S RTK or	NQ1Z0KRC103S
	B	CHIP TRANSISTOR FA1F4M-T1B	QQ8Z00FA1F4M
Q502	A	TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
	A	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	A	TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
	A	TRANSISTOR 2SA1175(H) or	QQSH02SA1175
	A	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q506		PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
		PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q507		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q508		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q509		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199

Ref. No.	Mark	Description	Part No.
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q511	A	TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
	A	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	A	TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
	A	TRANSISTOR 2SA1175(H) or	QQSH02SA1175
	A	TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q513		RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
		RES. BUILT-IN TRANSISTOR BA1F4M-T	QQSZ00BA1F4M
Q514		TRANSISTOR KTC3199(BL) or	NQS50KTC3199
		TRANSISTOR 2SC1815-BL(TPE2)	QQS202SC1815
Q515		TRANSISTOR KTC3199(BL) or	NQS50KTC3199
		TRANSISTOR 2SC1815-BL(TPE2)	QQS202SC1815
Q753		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q754		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1052		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q1053		TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
		TRANSISTOR 2SA1175(H) or	QQSH02SA1175
		TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q1054		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1055		TRANSISTOR KTC3203(Y) or	NQSY0KTC3203
		TRANSISTOR 2SC2120-Y(TPE2)	QQSY02SC2120
Q1204		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
Q1351		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1352		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815

Ref. No.	Mark	Description	Part No.
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1502		CHIP TRANSISTOR KRC103S RTK or	NQ1Z0KRC103S
		CHIP TRANSISTOR FA1F4M-T1B	QQ8Z00FA1F4M
Q1503		CHIP TRANSISTOR KTC3875Y-RTK	NQ1Y0KTC3875
Q2002	A	TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
	A	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	A	TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
	A	TRANSISTOR 2SC2785(H) or	QQSH02SC2785
	A	TRANSISTOR 2SC2785(F) or	QQSF02SC2785
	A	TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
	A	TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q2012	A	TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
	A	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	A	TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
	A	TRANSISTOR 2SA1175(H) or	QQSH02SA1175
	A	TRANSISTOR 2SA1175(F)	QQSF02SA1175
RESISTORS			
R051		CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
		CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R052		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R053		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R054		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R055	A	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R055	B	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R056		PCB JUMPER D0.6-P5.0	JW5.0T
R058		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R059		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R060		CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R061		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R062		CHIP RES.(1608) 1/10W J 180 Ω	RRXAJR5Z0181
R064		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R065		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R070		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R071	A	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R072		CARBON RES. 1/6W J 1 Ω or	RCX6JATZ01R0
		CARBON RES. 1/4W J 1 Ω	RCX4JATZ01R0
R105	A	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
	A	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R112		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R113		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R116		CARBON RES. 1/4W J 560 Ω	RCX4JATZ0561
R119	A	CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R119	B	CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R121		CARBON RES. 1/6W J 15k Ω or	RCX6JATZ0153
		CARBON RES. 1/4W J 15k Ω	RCX4JATZ0153
R122		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R124	B	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
	B	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R128		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R129		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R130		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R131		CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R132		CHIP RES. 1/10W F 160 Ω or	RRXAFR5H1600
		CHIP RES. 1/10W F 160 Ω	RRXAFR5Z1600
R133		CHIP RES. 1/10W F 160 Ω or	RRXAFR5H1600
		CHIP RES. 1/10W F 160 Ω	RRXAFR5Z1600
R134		CHIP RES. 1/10W F 160 Ω or	RRXAFR5H1600
		CHIP RES. 1/10W F 160 Ω	RRXAFR5Z1600
R135		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R136		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750

Ref. No.	Mark	Description	Part No.
R137		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R138		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R139	A	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R140		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R141		CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R142		CHIP RES.(1608) 1/10W J 180 Ω	RRXAJR5Z0181
R143		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R144		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R145		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R146		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R147		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R148		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R149		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R150		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R156	A	CHIP RES.(1608) 1/10W J 2.7k Ω	RRXAJR5Z0272
R157	A	CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R158	A	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R159	A	CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R160	A	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R251		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R252	A	CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R252	B	CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R301		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R303		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R304		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R305		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R306		CHIP RES.(1608) 1/10W J 5.6M Ω	RRXAJR5Z0565
R307		CARBON RES. 1/6W J 33 Ω or	RCX6JATZ0330
		CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R308		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R309		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R310		CARBON RES. 1/6W J 33 Ω or	RCX6JATZ0330
		CARBON RES. 1/4W J 33 Ω	RCX4JATZ0330
R311		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R312		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R314		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R316		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R317		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R319		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R320		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R321		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R322		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R323		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R324	A	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R324	B	CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R325		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R326		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R327		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R328		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R330		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R331		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R332		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R333		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R334		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R335		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R336		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R337		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R339		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R341		CHIP RES.(1608) 1/10W J 33 Ω	RRXAJR5Z0330
R342		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R401		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821

Ref. No.	Mark	Description	Part No.
R402		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R404		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R405		CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R406		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R407		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R408		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R409		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R410		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R411		CHIP RES.(1608) 1/10W J 27k Ω	RRXAJR5Z0273
R412		CHIP RES.(1608) 1/10W J 120 Ω	RRXAJR5Z0121
R413		CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R414		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R415		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R416		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R417		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R418		CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R419		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R420	A	CHIP RES.(1608) 1/10W J 68k Ω	RRXAJR5Z0683
R420	B	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R421	A	CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R421	B	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R423	A	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R424	A	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R427	A	CHIP RES.(1608) 1/10W J 68k Ω	RRXAJR5Z0683
R428	A	CHIP RES.(1608) 1/10W J 12k Ω	RRXAJR5Z0123
R430	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R431	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R451	B	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R452	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R453	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R454	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R455	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R456	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R457	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R458	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R459	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R460	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R461	B	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R462	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R463	B	CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R464	B	CHIP RES.(1608) 1/10W J 3.3k Ω	RRXAJR5Z0332
R465	B	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R466	B	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R467	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R468	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R469	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R470	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R471	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R472	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R473	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R474	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R475	B	CHIP RES.(1608) 1/10W J 47k Ω	RRXAJR5Z0473
R476	B	CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R477	B	CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R478	B	CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R479	B	CHIP RES.(1608) 1/10W J 33 Ω	RRXAJR5Z0330
R480	B	CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R481	B	CHIP RES.(1608) 1/10W J 33 Ω	RRXAJR5Z0330
R482	B	CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R483	B	CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223

Ref. No.	Mark	Description	Part No.
R484	B	CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R501		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R502		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R503		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R504		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R507		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R509		CHIP RES.(1608) 1/10W J 180 Ω	RRXAJR5Z0181
R511		CARBON RES. 1/6W G 3.6k Ω or	RCX6GATZ0362
		CARBON RES. 1/4W G 3.6k Ω	RCX4GATZ0362
R512		CHIP RES.(1608) 1/10W J 68k Ω	RRXAJR5Z0683
R513		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R514		CARBON RES. 1/6W G 10k Ω or	RCX6GATZ0103
		CARBON RES. 1/4W G 10k Ω	RCX4GATZ0103
R516		CARBON RES. 1/6W G 470 Ω or	RCX6GATZ0471
		CARBON RES. 1/4W G 470 Ω	RCX4GATZ0471
R517		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R519		CARBON RES. 1/6W G 22k Ω or	RCX6GATZ0223
		CARBON RES. 1/4W G 22k Ω	RCX4GATZ0223
R520	A	CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
	A	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R522	A	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R523		CARBON RES. 1/6W G 1.5k Ω or	RCX6GATZ0152
		CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R525		CARBON RES. 1/6W J 390k Ω or	RCX6JATZ0394
		CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R526		CHIP RES.(1608) 1/10W J 390k Ω	RRXAJR5Z0394
R527		CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
		CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R528		CARBON RES. 1/6W G 4.7k Ω or	RCX6GATZ0472
		CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R529		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R530		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R531		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R532		CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R533		CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R534	A	CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
	A	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R535	A	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R536		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R537		CHIP RES.(1608) 1/10W J 680 Ω	RRXAJR5Z0681
R538		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R539		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R540		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R541		CHIP RES.(1608) 1/10W J 18k Ω	RRXAJR5Z0183
R542		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R543		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R544		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R545		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R546		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R547		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R549	A	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R550	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R552	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R553	A	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R558		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R560		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R562		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R567		CHIP RES.(1608) 1/10W J 39k Ω	RRXAJR5Z0393
R568		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R569		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R570		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472

Ref. No.	Mark	Description	Part No.
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R572		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R574		CHIP RES.(1608) 1/10W J 560 Ω	RRXAJR5Z0561
R575		CHIP RES.(1608) 1/10W J 330k Ω	RRXAJR5Z0334
R576		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R577		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R578		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R581		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R582		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R583		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R584		CHIP RES.(1608) 1/10W J 100 Ω	RRXAJR5Z0101
R585		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R586		CHIP RES.(1608) 1/10W J 820 Ω	RRXAJR5Z0821
R588		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R591		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R601		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R602		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R603		CHIP RES.(1608) 1/10W J 1.2k Ω	RRXAJR5Z0122
R604		CHIP RES.(1608) 1/10W J 1.5k Ω	RRXAJR5Z0152
R605		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R613	B	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R614	B	CHIP RES.(1608) 1/10W J 5.1k Ω	RRXAJR5Z0512
R615	B	CHIP RES.(1608) 1/10W J 5.1k Ω	RRXAJR5Z0512
R616	B	CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R617	B	PCB JUMPER D0.6-P5.0	JW5.0T
R618	B	CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R621	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R622	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R623	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R624	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R702	A	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R703		CARBON RES. 1/6W J 1.8k Ω or	RCX6JATZ0182
		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R704		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R705		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R706		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R707	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R756		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R757		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R759	B	CARBON RES. 1/6W J 150 Ω or	RCX6JATZ0151
	B	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R760	B	CHIP RES.(1608) 1/10W J 150 Ω	RRXAJR5Z0151
R761		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R762	B	CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R763		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R764	A	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R764	B	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
	B	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R765	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R767		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R768		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R769	A	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R769	B	PCB JUMPER D0.6-P5.0	JW5.0T
R902		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R931		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R932		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R933		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R941		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R942		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R943		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1056	B	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181

Ref. No.	Mark	Description	Part No.
R1057	B	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R1060		PCB JUMPER D0.6-P5.0	JW5.0T
R1061		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1062		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1065		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1066		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R1067		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R1068		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1071	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1072	B	CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R1085		CHIP RES.(1608) 1/10W F 75 Ω or	RRXAFR5H0750
		CHIP RES.(1608) 1/10W F 75 Ω	RRXAFR5Z0750
R1086		CHIP RES.(1608) 1/10W F 2.0k Ω or	RRXAFR5H0202
		CHIP RES. 1/10W F 2.0k Ω	RRXAFR5Z0202
R1087		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1090		CHIP RES.(1608) 1/10W J 56k Ω	RRXAJR5Z0563
R1091		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1205		CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFR5H2002
		CHIP RES.(1608) 1/10W F 20k Ω	RRXAFR5Z2002
R1206		CHIP RES.(1608) 1/10W F 20k Ω or	RRXAFR5H2002
		CHIP RES.(1608) 1/10W F 20k Ω	RRXAFR5Z2002
R1207		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R1208		CHIP RES.(1608) 1/10W J 8.2k Ω	RRXAJR5Z0822
R1209		CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5H3002
		CHIP RES.(1608) 1/10W F 30k Ω	RRXAFR5Z3002
R1210		CHIP RES.(1608) 1/10W F 30k Ω or	RRXAFR5H3002
		CHIP RES.(1608) 1/10W F 30k Ω	RRXAFR5Z3002
R1211		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1221		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1222		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1223		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1224		CHIP RES.(1608) 1/10W J 470 Ω	RRXAJR5Z0471
R1227		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1228		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1229		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1233		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1236		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1238		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1240		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1245		CHIP RES.(1608) 1/10W J 10 Ω	RRXAJR5Z0100
R1351		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1352		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R1353		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1354		CHIP RES.(1608) 1/10W J 2.2k Ω	RRXAJR5Z0222
R1355		CHIP RES.(1608) 1/10W J 220 Ω	RRXAJR5Z0221
R1356		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
R1361		CHIP RES.(1608) 1/10W J 100k Ω	RRXAJR5Z0104
R1364		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R1394		CARBON RES. 1/6W J 100 Ω or	RCX6JATZ0101
		CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R1396		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1421		CHIP RES. 1/10W F 160 Ω or	RRXAFR5H1600
		CHIP RES. 1/10W F 160 Ω	RRXAFR5Z1600
R1422		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1423		CHIP RES. 1/10W F 160 Ω or	RRXAFR5H1600
		CHIP RES. 1/10W F 160 Ω	RRXAFR5Z1600
R1442		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1501		CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R1502		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R1503		CHIP RES.(1608) 1/10W J 6.8k Ω	RRXAJR5Z0682
R2001		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103

Ref. No.	Mark	Description	Part No.
R2002		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2003		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2005		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2006		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2046	A	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2051	A	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R2052	A	CHIP RES.(1608) 1/10W J 3.9k Ω	RRXAJR5Z0392
R2053	A	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R2054	A	CARBON RES. 1/6W J 82 Ω or	RCX6JATZ0820
	A	CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R2055	A	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2056	A	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2067	B	CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
R2082		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R2083		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R2084		CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R2086		CHIP RES.(1608) 1/10W J 5.6k Ω	RRXAJR5Z0562
R2080	A	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R2081	A	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
R2093		CHIP RES.(1608) 1/10W J 22k Ω	RRXAJR5Z0223
R2094		CHIP RES.(1608) 1/10W J 10k Ω	RRXAJR5Z0103
SWICHES			
SW501		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW503		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW504		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW506		LEAF SWITCH MXS01830MVP0	SSC0101MCE03
SW507		ROTARY MODE SWITCH SSS-53MD	SSR0106KB003
SW601		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW602		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW603		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW604		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW605		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2005	A	TACT SWITCH KSM0614B or	SST0101HH013
	A	TACT SWITCH SKQSAF001A or	SST0101AL041
	A	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2006	A	TACT SWITCH KSM0614B or	SST0101HH013
	A	TACT SWITCH SKQSAF001A or	SST0101AL041
	A	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2021		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW2022		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH SKQSAF001A or	SST0101AL041
		TACT SWITCH TC-1104(H=9.5)	SST0101DNG01

Ref. No.	Mark	Description	Part No.
MISCELLANEOUS			
2B11		NEW SHIELD ASSEMBLY H9700ED	1VM420438
2B15		BUSH, LED(F) H3700UD	0VM409508
2B46		ROHM HOLDER H7770JD	0VM304573
2L062		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080
2L082		SCREW, B-TIGHT M3X8 BIND HEAD +	GBKB3080
A5		JACK BOARD(RCA) H9700ED	0VM204532
JK101		RGB CONNECTOR MRC-021V-03	JXGL210LY003
JK1202		RCA JACK(BLACK) MSP-281V2-B	JXRL010LY062
JK1401		S TYPE JACK MDC-050V-2.4	JXEL040LY001
JK751		RCA JACK MSP-282V-12 PBSN	JXRL030LY011
JK752		RCA JACK(YELLOW) MSP-281V4-B	JXRL010LY003
JK753	B	RCA JACK(WHITE) MSP-281V1-B	JXRL010LY005
JK754	A	RCA JACK(WHITE) MSP-281V1-B	JXRL010LY005
JK754	B	RCA JACK(RED) MSP-281V3-A	JYRL010LY002
JW006	A	FFC CABLE, 26P FFC/P1.00/260	WX1H9700-006
JW006	B	FFC CABLE, 27P FFC/P1.00/260	WX1H9700-001
JW007		FFC CABLE, 19P FFC/P1.00/195	WX1H9700-002
PS502		PHOTO INTERRUPTER RPI-302C70	QPWZP1302C70
RM2001		REMOTE RECEIVER MIM-93M6DKF or	USESJRSUNT01
		REMOTE RECEIVER PIC-37042LU	USESJRSKK033
TP301		PCB JUMPER D0.6-P19.0	JW19.0T
TP401		PCB JUMPER D0.6-P14.5	JW14.5T
TP501		PCB JUMPER D0.6-P5.0	JW5.0T
TP502		PCB JUMPER D0.6-P5.0	JW5.0T
TP503		PCB JUMPER D0.6-P6.0	JW6.0T
TP504		PCB JUMPER D0.6-P15.0	JW15.0T
TU701		TUNER UNIT TMDG2-861A	UTUNPLGAL014
VR501		CARBON P.O.T. 100k Ω B	VRCB104HH014
X301		X'TAL 4.433619MHz or	FXC445LLN001
		X'TAL 4.433619MHz	1811388
X501		X'TAL 12.000MHz	FXD126LDS001
X502		X'TAL 32.768kHz(20PPM) or	FXC323LQUA01
		X'TAL 32.768kHz(20PPM)	FXC323LDS002

POWER SW CBA

Ref. No.	Description	Part No.
	POWER SW CBA (MCV-B) Consists of the following:	----------
DIODE		
D651	LED(RED) 204HD/E	NPQZ00204HDE
SWITCHES		
SW651	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS		
2B13	BUSH, LED(E) H1600UD	0VM408832
JW009	FLAT CABLE, 4P AWG26#2651/P2.0/80	WX3804S6FF08

DVD OPEN/CLOSE CBA

Ref. No.	Description	Part No.
	DVD OPEN/CLOSE CBA (MCV-C) Consists on the following:	----------
SWITCHES		
SW2020	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
MISCELLANEOUS		
JW008	FLAT CABLE, 2P AWG26#2651/P2.0/120	WX1HC460-001

SENSOR CBA

Ref. No.	Description	Part No.
	SENSOR CBA Consists on the following:	1VSA10047
	TRANSISTORS	
Q503	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q504	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F

PSV CBA

Ref. No.	Mark	Description	Part No.
	A B	PSV CBA PSV CBA Consists of the following	1VSA10110 1VSA10804
		POWER SUPPLY CBA (PSV-A) JUNCTION CBA (PSV-B) JACK-A CBA (PSV-C)	--------- --------- ---------

POWER SUPPLY CBA

Ref. No.	Mark	Description	Part No.
		POWER SUPPLY CBA (PSV-A) Consists on the following:	---------
		CAPACITORS	
C013		ELECTROLYTIC CAP. 10µF/50V M or	CE1JMASDL100
		ELECTROLYTIC CAP. 10µF/50V M	CE1JMASTL100
C014		ELECTROLYTIC CAP. 470µF/16V M or	CE1CMASDL471
		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASTL471
C015		ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASTL101
C017		ELECTROLYTIC CAP. 1000µF/16V M	CE1CMZPTL102
C018		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C020		ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
		ELECTROLYTIC CAP. 22µF/50V M	CE1JMASTL220
C021		CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
		CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
		CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C022		ELECTROLYTIC CAP. 470µF/35V M or	CE1GMASDL471
		ELECTROLYTIC CAP. 470µF/35V M	CE1GMASTL471
C1001⚠		METALLIZED FILM CAP. 0.068µF/275V K or	CT2E683HJE06
⚠		METALLIZED FILM CAP. 0.068µF/250V K or	CT2E683DC011
⚠		METALLIZED FILM CAP. 0.068µF/250V K or	CT2E683DC014
⚠		METALLIZED FILM CAP. 0.068µF/250V M	CT2E683MS037
C1004		ELECTROLYTIC CAP. 100µF/400V M	CA2H101S6016
C1005		CERAMIC CAP. SL K 56pF/1KV or	CCD3AKPSL560
		CERAMIC CAP. SL J 56pF/1KV	CCD3AJPSL560
C1006⚠		SAFTY CAP. 2200pF/250V or	CCN2EMA0E222
⚠		SAFETY CAP. 2200pF/250V	CA2E222MR049
C1007	A	ELECTROLYTIC CAP. 1000µF/6.3V M or	CE0KMASTL102
	A	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMZPTL102
C1007	B	ELECTROLYTIC CAP. 1000µF/6.3V M	CE0KMASTL102
C1013		CERAMIC CAP.(AX) X K 3300pF/16V	CCA1CKT0X332
C1018	B	ELECTROLYTIC CAP. 100µF/10V M or	CE1AMASDL101
	B	ELECTROLYTIC CAP. 100µF/10V M	CE1AMASTL101
C1025		CHIP CERAMIC CAP.(1608) B K 0.033µF/ 50V or	CHD1JK30B333
		CHIP CERAMIC CAP.(1608) B K 0.033µF/ 25V	CHD1EK30B333
C1029		CERAMIC CAP.(AX) X K 2200pF/16V	CCA1CKT0X222
C1021	B	CERAMIC CAP.(AX) F Z 0.01µF/25V	CDA1EZT0F103
C1032		ELECTROLYTIC CAP. 10µF/16V M or	CE1CMASDL100
		ELECTROLYTIC CAP. 10µF/16V M	CE1CMASTL100
C1033		CERAMIC CAP. YV Z 0.022µF/50V	CCD1JZSYV223
C1035		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C1106		ELECTROLYTIC CAP. 100µF/35V M or	CE1GMASDL101
		ELECTROLYTIC CAP. 100µF/35V M	CE1GMASTL101
C1107		ELECTROLYTIC CAP. 220µF/6.3V M or	CE0KMASDL221
		ELECTROLYTIC CAP. 220µF/6.3V M	CE0KMASTL221
C2014		CERAMIC CAP. B K 0.01µF/500V	CCD2JKP0B103
C2015		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
		DIODES	
D013		RECTIFIER DIODE BA158 or	NDQZ000BA158
		RECTIFIER DIODE BA158	NDWZ000BA158
D014		SCHOTTKY BARRIER DIODE SB390	NDQZ000SB390
D015		ZENER DIODE DZ-5.6BSCT265 or	NDTC0DZ5R6BS
		ZENER DIODE MTZJT-775.6C	QDTC0MTZJ5R6
D016		SCHOTTKY BARRIER DIODE SB340	NDQZ000SB340
D017		ZENER DIODE DZ-18BSBT265 or	NDTB00DZ18BS
		ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D018		RECTIFIER DIODE BA158 or	NDQZ000BA158
		RECTIFIER DIODE BA158	NDWZ000BA158
D019		RECTIFIER DIODE FR203-B/P	NDQZ000FR203
D1001		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1002		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1003		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1004		RECTIFIER DIODE 1N4005 or	NDQZ001N4005
		RECTIFIER DIODE 1N4005	NDWZ001N4005
D1006		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1008		SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
		SCHOTTKY BARRIER DIODE SB140 or	NDWZ000SB140
		SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***
D1011		RECTIFIER DIODE BA159 or	NDQZ000BA159
		RECTIFIER DIODE BA159 or	NDWZ000BA159
		RECTIFIER DIODE ERA22-10	QDPZ0ERA2210
D1012		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1018		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1019		ZENER DIODE DZ-6.8BSBT265 or	NDTB0DZ6R8BS
		ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D1016	B	RECTIFIER DIODE FR101	NDWZ000FR101
D1017	B	ZENER DIODE DZ-18BSBT265 or	NDTB00DZ18BS
	B	ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D1022		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1024		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1025		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1030		SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
		SCHOTTKY BARRIER DIODE SB140 or	NDWZ000SB140
		SCHOTTKY BARRIER DIODE ERB81-004	AERB81004***
		ICS	

Ref. No.	Mark	Description	Part No.
IC1001⚠		PHOTOCOUPLER EL817A or	NPEA000EL817
⚠		PHOTOCOUPLER EL817B or	NPEB000EL817
⚠		PHOTOCOUPLER LTV-817B-F or	NPEB0LTV817F
⚠		PHOTOCOUPLER PS2561A-1(Q) or	QPEQPS2561A1
⚠		PHOTOCOUPLER PS2561A-1(W)	QPEWPS2561A1
COILS			
L010		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K	LLBD00PKT001
L013		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K	LLBD00PKT001
L1001		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L1002		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L1003⚠		LINE FILTER 56MH TLF14CB5630R2 or	LLBG00ZTU022
⚠		LINE FILTER 50MH LF-4D-E503	LLBG00ZKQ009
L1004		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L1005		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L1009		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K	LLBD00PKT001
L1011		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K	LLBD00PKT001
L1012		CHOKE COIL 47μH-K or	LLBD00PKV007
		CHOKE COIL 47μH-K or	LLBD00PKV005
		CHOKE COIL 47μH-K	LLBD00PKT001
TRANSISTORS			
Q1001⚠		FET 2SK3566	QFWZ02SK3566
Q1003		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
Q1004		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
		TRANSISTOR KTA1267(Y) or	NQQY0KTA1267
		TRANSISTOR 2SA1175(J) or	QQSJ02SA1175
		TRANSISTOR 2SA1175(H) or	QQSH02SA1175
		TRANSISTOR 2SA1175(F)	QQSF02SA1175
Q1008		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR 2SC2785(J) or	QQSJ02SC2785
		TRANSISTOR 2SC2785(H) or	QQSH02SC2785
		TRANSISTOR 2SC2785(F) or	QQSF02SC2785
		TRANSISTOR 2SC1815-Y(TPE2) or	QQSY02SC1815
		TRANSISTOR 2SC1815-GR(TPE2)	QQS102SC1815
RESISTORS			
R013		CARBON RES. 1/6W J 2.7k Ω or	RCX6JATZ0272
		CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R057		CHIP RES.(1608) 1/10W J 220k Ω	RRXAJR5Z0224
R068		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R069		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R073		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R074		CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R1002		CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R1003		CARBON RES. 1/4W J 560k Ω	RCX4JATZ0564
R1004		METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZLZ0823
		METAL OXIDE FILM RES. 2W J 82k Ω or	RN02JZQZ0823
		METAL OXIDE FILM RES. 2W J 82k Ω	RN02JZPZ0823
R1005		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1006		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1007		CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R1008		CARBON RES. 1/4W G 680 Ω	RCX4GATZ0681
R1010		CARBON RES. 1/6W J 8.2k Ω or	RCX6JATZ0822

Ref. No.	Mark	Description	Part No.
		CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R1011		METAL OXIDE FILM RES. 1W J 1.3 Ω or	RN01JZLZ01R3
		METAL OXIDE FILM RES. 1W J 1.3 Ω or	RN01JZQZ01R3
		METAL OXIDE FILM RES. 1W J 1.3 Ω	RN01JZPZ01R3
R1020		CHIP RES.(1608) 1/10W J 1.8k Ω	RRXAJR5Z0182
R1021		CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R1022		CHIP RES.(1608) 1/10W J 4.7k Ω	RRXAJR5Z0472
R1023		CHIP RES.(1608) 1/10W F 2.2k Ω or	RRXAFR5H0222
		CHIP RES.(1608) 1/10W F 2.2k Ω	RRXAFR5Z0222
R1024		CHIP RES.(1608) 1/10W J 68k Ω	RRXAJR5Z0683
R1025		CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H0562
		CHIP RES. 1/10W F 5.6k Ω	RRXAFR5Z0562
R1029		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1032		CARBON RES. 1/4W G 1.8k Ω	RCX4GATZ0182
R1035		CARBON RES. 1/6W J 1k Ω or	RCX6JATZ0102
		CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1036		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1037		CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
		CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
R1038		CARBON RES. 1/6W J 100k Ω or	RCX6JATZ0104
		CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1039		CARBON RES. 1/6W J 470k Ω or	RCX6JATZ0474
		CARBON RES. 1/4W J 470k Ω	RCX4JATZ0474
R1030	A	CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R1031	A	CARBON RES. 1/4W J 82 Ω	RCX4JATZ0820
R1043		METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN012R7ZU001
		METAL OXIDE FILM RES. 1W J 2.7 Ω or	RN012R7KE009
		METAL OXIDE FILM RES. 1W J 2.7 Ω	RN012R7DP003
R1040	B	CARBON RES. 1/4W J 15 Ω	RCX4JATZ0150
R1059	B	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R1126		CHIP RES.(1608) 1/10W J 33k Ω	RRXAJR5Z0333
R1127		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R1128		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
MISCELLANEOUS			
2B33		HEATSINK H9700ED	0VM416271
2L053		SCREW, S-TIGHT M3X8 BIND HEAD+	GBMS3080
AC1001⚠		AC CORD PE8G2CG9G0AA059	WAE0172LW009
F1001⚠		FUSE T1.6AL/250V or	PAGC20BW3162
⚠		FUSE 50T016H 1.6A/250V	PAGH20BHV162
FH1001		FUSE HOLDER MSF-015 or	XH01Z00LY001
		FUSE HOLDER DFH-001	XH01Z00RP001
FH1002		FUSE HOLDER MSF-015 or	XH01Z00LY001
		FUSE HOLDER DFH-001	XH01Z00RP001
T0011⚠		SWITCHING TRANSFORMER CGS-SW0066A or	LTT00EPSA171
⚠		PULSE TRANS. BCK-28-0522	LTT00EPXB015

JUNCTION CBA

Ref. No.	Mark	Description	Part No.
		JUNCTION CBA (PSV-B) Consists on the following:	---------
CONNECTORS			
CN051A	A	CONNECTOR, 15P TUC-P15X-B1	JCTUS15TG001
CN051A	B	CONNECTOR, 18P TUC-P18X-B1	JCTUS18TG001
MISCELLANEOUS			
JW001		FLAT CABLE, 9P AWG26#2651/P2.0/75	WX3809S6FF07
JW002	A	FLAT CABLE, 6P AWG26#2651/P2.0/65	WX3806S6FF06
JW002	B	FLAT CABLE, 9P AWG26#2651/P2.0/65	WX3809S6FF06

JACK-A CBA

Ref. No.	Mark	Description	Part No.
		JACK-A CBA (PSV-C) Consists on the following:	----------
		CAPACITORS	
C101		CHIP CERAMIC CAP.(1608) B K 1000pF/ 50V	CHD1JK30B102
C102		ELECTROLYTIC CAP. 1µF/50V M or	CE1JMASDL1R0
		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASTL1R0
C103		ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASDL101
		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASTL101
C105		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C106	B	CHIP CERAMIC CAP.(1608) CH J 470pF/ 50V or	CHD1JJ3CH471
	B	CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471
C108		ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
		ELECTROLYTIC CAP. 470µF/6.3V M	CE0KMASTL471
C110	B	CERAMIC CAP.(AX) X K 2200pF/16V	CCA1CKT0X222
C111		CHIP CERAMIC CAP.(1608) CH J 470pF/ 50V or	CHD1JJ3CH471
		CHIP CERAMIC CAP. CG J 470pF/50V	CHD1JJ3CG471
C119		CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
		DIODES	
D112		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D113		ZENER DIODE DZ-11BSAT265 or	NDTA00DZ11BS
		ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
		COIL	
L102		BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
		TRANSISTORS	
Q103		TRANSISTOR KTA1266(GR) or	NQS40KTA1266
		TRANSISTOR 2SA1015-GR(TPE2)	QQS102SA1015
		RESISTORS	
R110	A	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
	A	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R111		CARBON RES. 1/6W J 220 Ω or	RCX6JATZ0221
		CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R114		CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R115	A	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R117		CARBON RES. 1/4W J 510 Ω	RCX4JATZ0511
R118	B	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
	B	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R120		CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R123	B	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R125		CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
		CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R126		CHIP RES.(1608) 1/10W J 75 Ω	RRXAJR5Z0750
		MISCELLANEOUS	
JK1402		RGB CONNECTOR MRC-021V-03	JXGL210LY003
JW003		FLAT CABLE, 10P AWG26#2651/P2.0/190	WX3810S6FF19

AFV CBA

Ref. No.	Mark	Description	Part No.
	B	AFV CBA Consists on the following:	1VSA10062
		CAPACITORS	
C1	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C4	B	CHIP CERAMIC CAP. CH J 56pF/50V or	CHD1JJ3CH560
	B	CHIP CERAMIC CAP. CG J 56pF/50V	CHD1JJ3CG560
C5	B	CHIP CERAMIC CAP.(1608) CH J 22pF/ 50V or	CHD1JJ3CH220
	B	CHIP CERAMIC CAP. CG J 22pF/50V	CHD1JJ3CG220
C6	B	CHIP CERAMIC CAP. CH J 56pF/50V or	CHD1JJ3CH560
	B	CHIP CERAMIC CAP. CG J 56pF/50V	CHD1JJ3CG560
C7	B	CHIP CERAMIC CAP. CH C 3pF/50V or	CHD1JC3CH3R0
	B	CHIP CERAMIC CAP. CJ C 3pF/50V or	CHD1JC3CJ3R0
	B	CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C8	B	CHIP CERAMIC CAP. CH C 3pF/50V or	CHD1JC3CH3R0
	B	CHIP CERAMIC CAP. CJ C 3pF/50V or	CHD1JC3CJ3R0
	B	CHIP CERAMIC CAP. CH D 3pF/50V	CHD1JD3CH3R0
C11	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C12	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C13	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C14	B	CHIP CERAMIC CAP.(1608) B K 0.01µF/ 50V	CHD1JK30B103
C15	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C16	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C17	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C19	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C20	B	ELECTROLYTIC CAP. 3.3µF/50V M H7	CE1JMASSL3R3
C21	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V or	CHD1JZ30F104
	B	CHIP CERAMIC CAP.(1608) F Z 0.1µF/25V or	CHD1EZ30F104
	B	CHIP CERAMIC CAP. FZ Z 0.1µF/50V	CHD1JZ3FZ104
C22	B	ELECTROLYTIC CAP. 10µF/16V M H7	CE1CMASSL100
C24	B	ELECTROLYTIC CAP. 0.22µF/50V M H7	CE1JMASSLR22
		CONNECTOR	
CN1	B	ANGLE PIN HEADER, 9P 6029B-1-09Z003-T	5700069
		DIODES	
D2	B	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	B	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
		ICS	
IC1	B	IC:AUDIO PROCESSOR MSP3417G-QG-B8 or	NSZBA0SP3002
	B	IC:AUDIO PROCESSOR MSP3417G-QG-B8-V3	NSZBA0SP3005
		COILS	
L1	B	INDUCTOR 10µH-K-26T	LLAXKATTU100
L2	B	PCB JUMPER D0.6-P5.0	JW5.0T
L3	B	INDUCTOR 18µH-K-26T	LLAXKATTU180
L4	B	INDUCTOR 10µH-K-26T	LLAXKATTU100
		RESISTORS	
R1	B	CHIP RES.(1608) 1/10W J 1k Ω	RRXAJR5Z0102
R4	B	CHIP RES.(1608) 1/10W J 120k Ω	RRXAJR5Z0124
R5	B	CHIP RES.(1608) 1/10W 0 Ω	RRXAZR5Z0000
		MISCELLANEOUS	
X1	B	X'TAL 18.432MHz	FXD186LLN001

DECK MECHANISM SECTION

DVD PLAYER &
VIDEO CASSETTE RECORDER

DDVR-5505V/DDVR-5805

Sec. 2: Deck Mechanism Section

- **Standard Maintenance**
- **Mechanism Alignment Procedures**
- **Disassembly / Assembly of Mechanism**
- **Deck Exploded Views**
- **Deck Parts List**

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STANDARD MAINTENANCE

Service Schedule of Components

This maintenance chart shows you the standard of replacement and cleaning time for each part.
Because those may replace depending on environment and purpose for use, use the chart for reference.

h: Hours ○: Cleaning ●: Replace

Deck		Periodic Service Schedule			
Ref.No.	**Part Name**	**1,000 h**	**2,000 h**	**3,000 h**	**4,000 h**
B2	Cylinder Assembly	○	●	○	●
B3	Loading Motor Assembly			●	
B8	Pulley Assembly		●		●
B587	Tension Lever Assembly		●		●
B31	ACE Head Assembly			●	
B573, B574	Reel S, Reel T			●	
B37	Capstan Motor		●		●
B52	Cap Belt		●		●
*B73	FE Head			●	
*B86	F Brake Assembly (HI)		●		●
B133	Idler Assembly (HI)		●		●
B410	Pinch Arm Assembly		●		●
B414	M Brake (SP) Assembly (HI)		●		●
B416	M Brake (TU) Assembly (HI)		●		●
B525	LDG Belt		●		●

Notes:

1. Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / ACE Head / FE Head) using 90% lsopropyl Alcohol.
2. After cleaning the parts, do all DECK ADJUSTMENTS.
3. For the reference numbers listed above, refer to Deck Exploded Views.
   * B73 ------ Recording model only
   * B86 ------ Not used in 2 head model.

Cleaning

Cleaning of Video Head

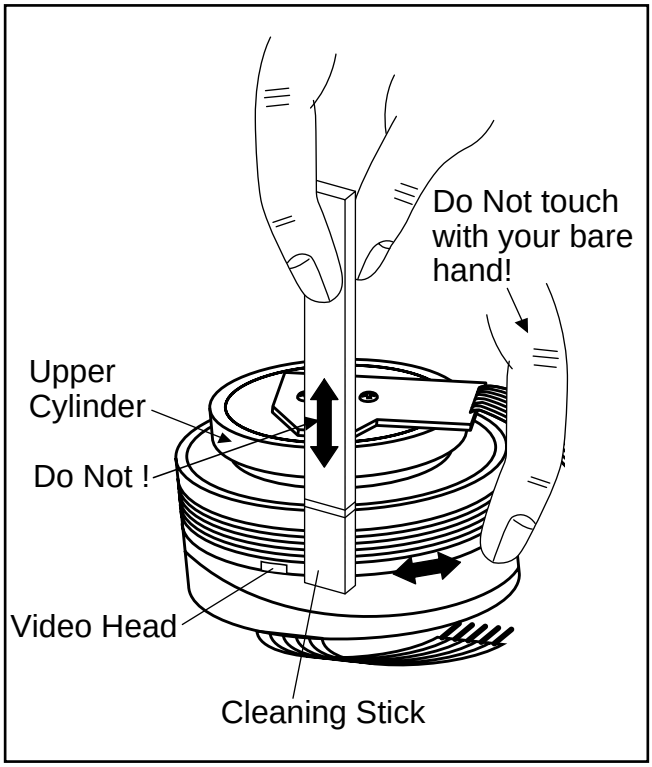
Clean the head with a head cleaning stick or chamois cloth.

Procedure

1. Remove the top cabinet.
2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

Notes:

1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit.
3. Do not reuse a stained head cleaning stick or a stained chamois cloth.



Cleaning of ACE Head

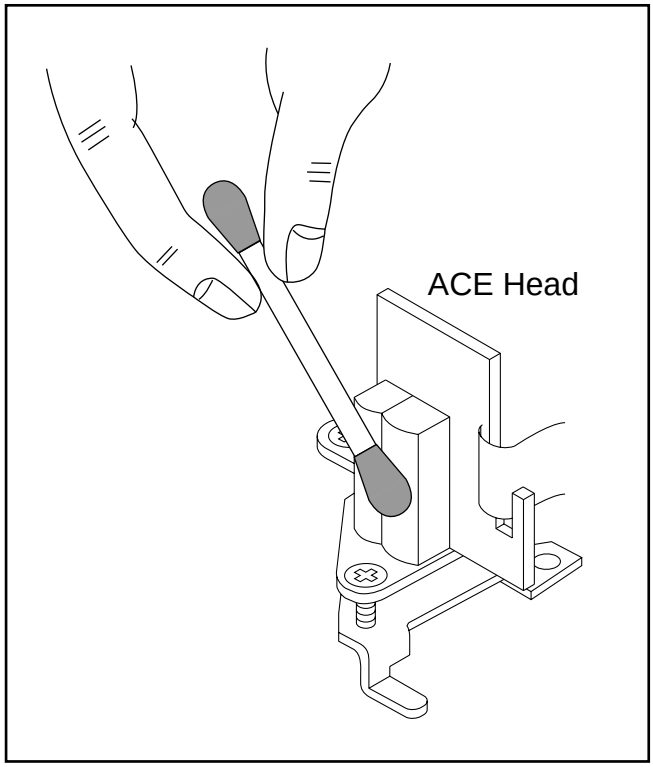
Clean the head with a cotton swab.

Procedure

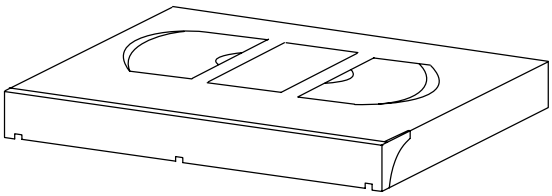
1. Remove the top cabinet.
2. Dip the cotton swab in 90% isopropyl alcohol and clean the ACE Head. Be careful not to damage the upper drum and other tape running parts.

Notes:

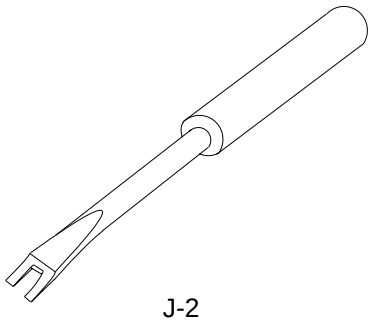
1. Avoid cleaning the ACE Head vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.



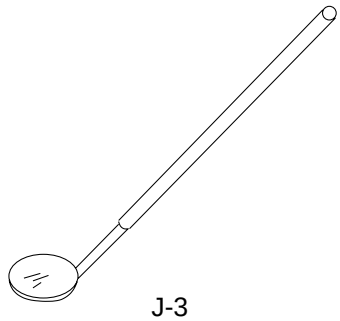
SERVICE FIXTURE AND TOOLS



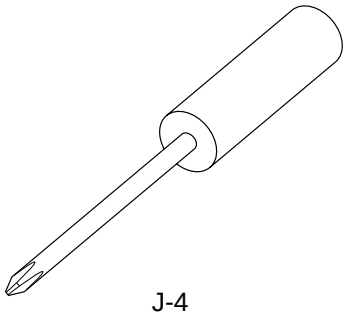
J-1-1, J-1-2



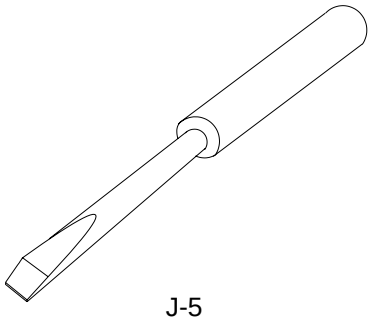
J-2



J-3



J-4



J-5

Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	FL6A	Head Adjustment of ACE Head
J-1-2	Alignment Tape	FL6N8 (2 Head model) FL6NS8 (4 Head model)	Azimuth and X Value Adjustment of ACE Head / Adjustment of Envelope Waveform
J-2	Guide Roller Adj. Screwdriver	Available Locally	Guide Roller
J-3	Mirror	Available Locally	Tape Transportation Check
J-4	Azimuth Adj. Screwdriver +	Available Locally	ACE Head Height
J-5	Flat Screwdriver -	Available Locally	X Value

MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

Service Information

A. Method for Manual Tape Loading/Unloading

To load a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Make sure that the Moving guide preparations are in the Eject Position.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

B. Method to place the Cassette Holder in the tape-loaded position without a cassette tape

1. Disconnect the AC Plug.
2. Remove the Top Case and Front Assembly.
3. Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.

Top View

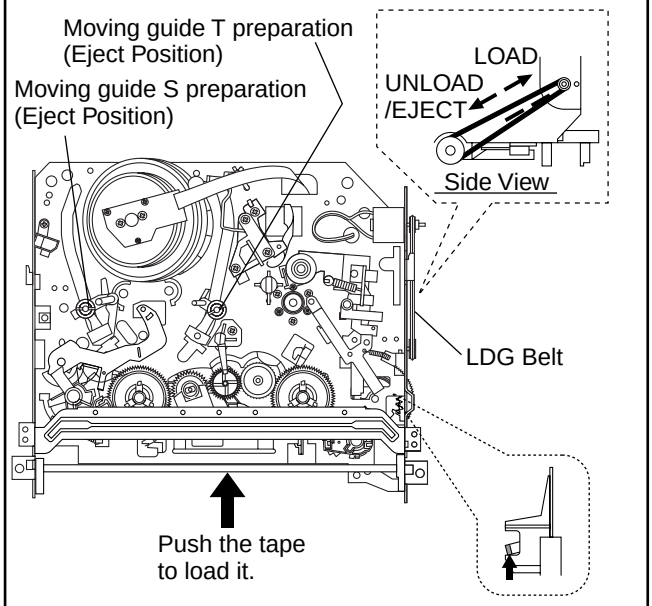


Fig. M1

Bottom View

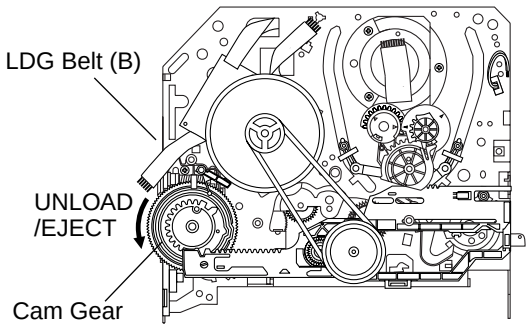


Fig. M2

1. Tape Interchangeability Alignment

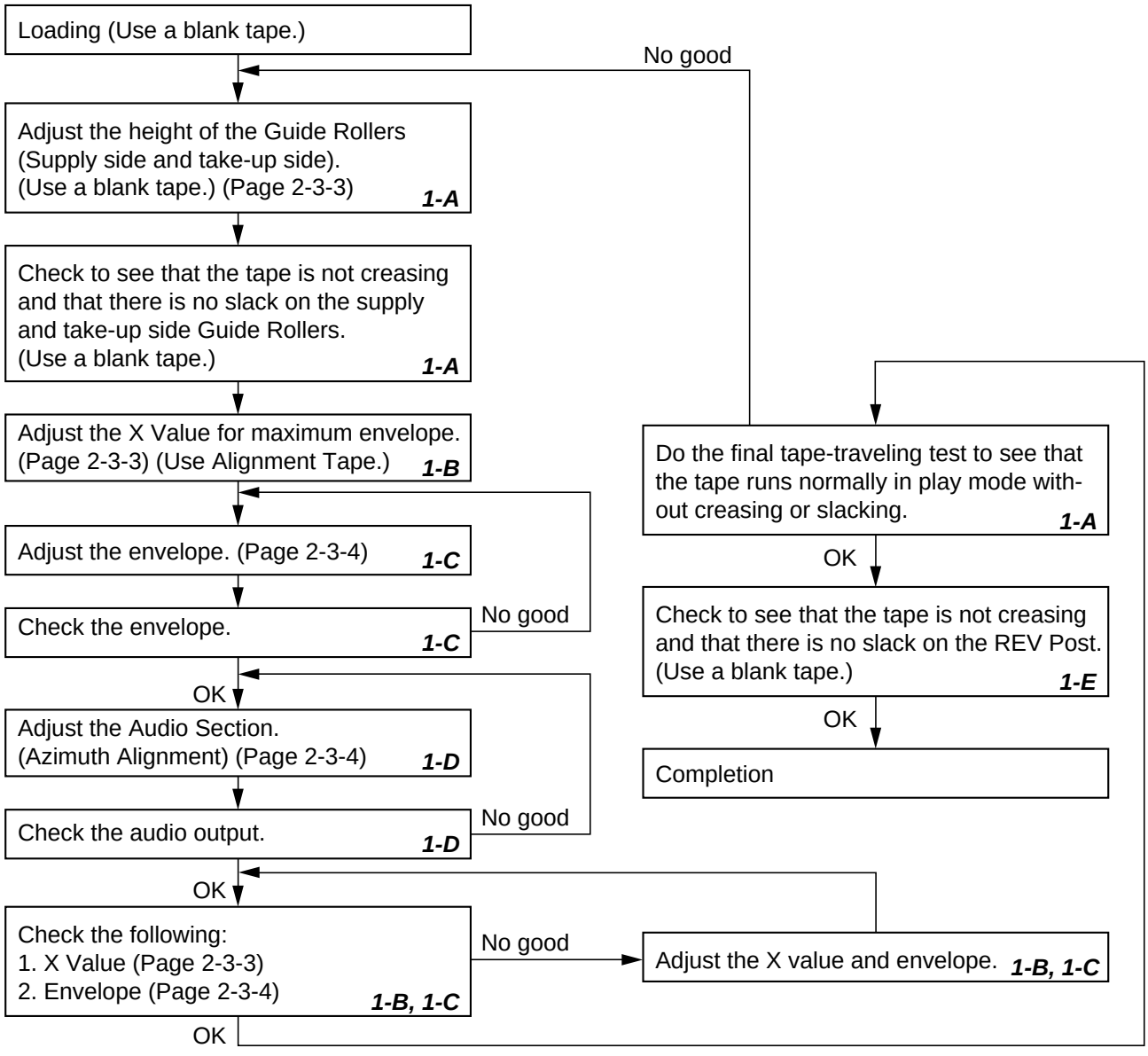
Note:
To do these alignment procedures, make sure that the Tracking Control Circuit is set to the preset position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

Equipment required:

Dual Trace Oscilloscope
VHS Alignment Tape (FL6NS8)
Guide Roller Adj. Screwdriver
Flat Screwdriver (Purchase Locally)

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

Flowchart of Alignment for tape traveling


Loading (Use a blank tape.)
Adjust the height of the Guide Rollers (Supply side and take-up side). (Use a blank tape.) (Page 2-3-3) 1-A
Check to see that the tape is not creasing and that there is no slack on the supply and take-up side Guide Rollers. (Use a blank tape.) 1-A
Adjust the X Value for maximum envelope. (Page 2-3-3) (Use Alignment Tape.) 1-B
Adjust the envelope. (Page 2-3-4) 1-C
Check the envelope. 1-C
No good
OK
Adjust the Audio Section. (Azimuth Alignment) (Page 2-3-4) 1-D
Check the audio output. 1-D
No good
OK
Check the following:
1. X Value (Page 2-3-3)
2. Envelope (Page 2-3-4) 1-B, 1-C
No good
Adjust the X value and envelope. 1-B, 1-C
OK
No good
Do the final tape-traveling test to see that the tape runs normally in play mode without creasing or slacking. 1-A
OK
Check to see that the tape is not creasing and that there is no slack on the REV Post. (Use a blank tape.) 1-E
OK
Completion

1-A. Preliminary/Final Checking and Alignment of Tape Path

Purpose:

To make sure that the tape path is well stabilized.

Symptom of Misalignment:

If the tape path is unstable, the tape will be damaged.

Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
2. If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)

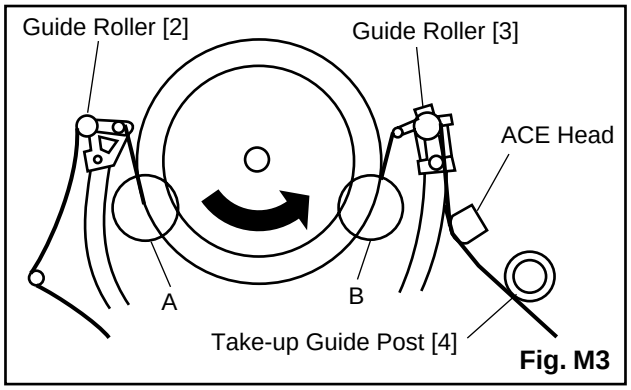


Fig. M3

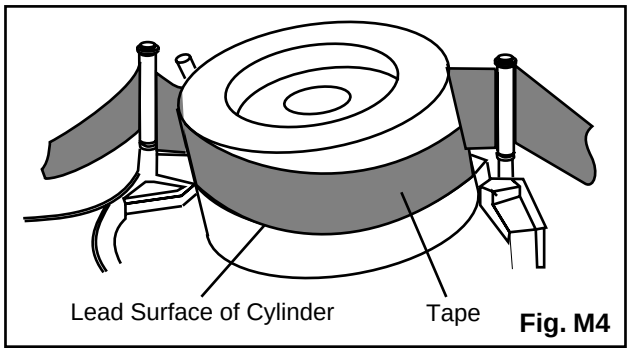


Fig. M4

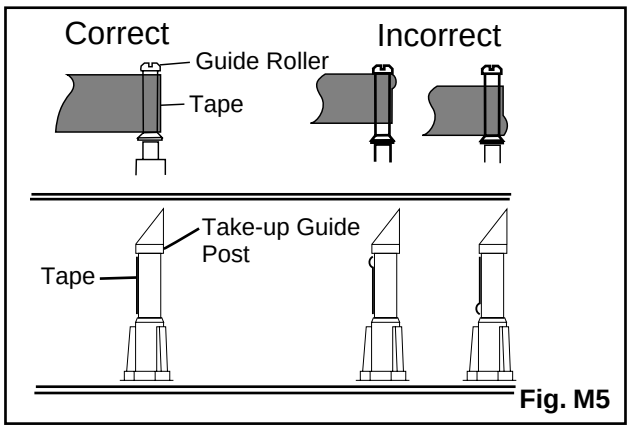


Fig. M5

3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and ACE Head. (Fig. M3 and M5)
4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the ACE Head. (Fig. M6)

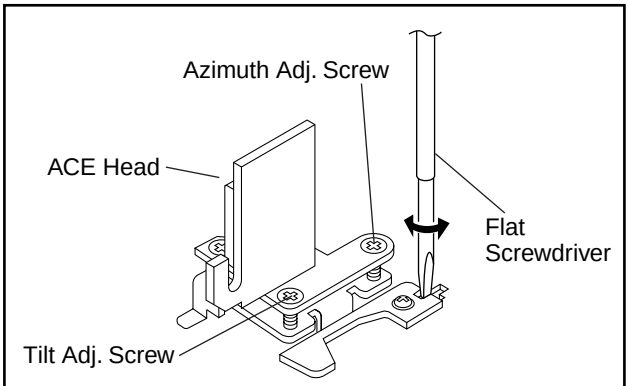


Fig. M6

1-B. X Value Alignment

Purpose:

To obtain maximum PB FM envelope signal at the preset position of the Tracking Control Circuit, align the Horizontal Position of the ACE Head.

Symptom of Misalignment:

If the Horizontal Position of the ACE Head is not properly aligned, maximum PB FM envelope cannot be obtained at the preset position of the Tracking Control Circuit.

1. Connect the oscilloscope to TP301 (C-PB) and TP503 (CTL) on the Main CBA. Use TP504 (RF-SW) as a trigger.
2. Playback the Gray Scale of the Alignment Tape (FL6NS8) and confirm that the PB FM signal is present.
3. Set the Tracking Control Circuit to the preset position by pressing CH UP button on the remote control unit then “PLAY” button on the unit. (Refer to note on bottom of page 2-3-4.)
4. Use the Flat Screwdriver so that the PB FM signal at TP301 (C-PB) is maximum. (Fig. M6)

5. To shift the CTL waveform, press CH UP or CH DOWN button on the remote control unit. Then make sure that the maximum output position of PB FM envelope signal become within ±2ms from preset position.

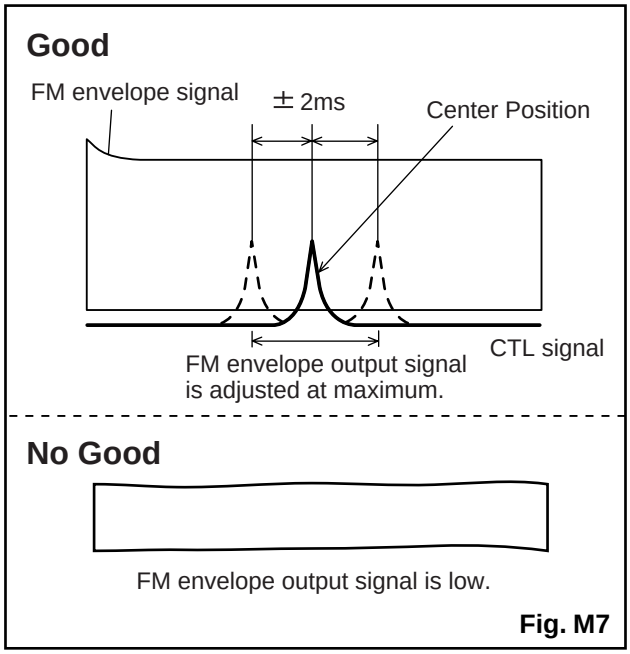


Fig. M7

6. Set the Tracking Control Circuit to the preset position by pressing CH UP button on the remote control unit. and then “PLAY” button.

1-C. Checking/Adjustment of Envelope Waveform

Purpose:

To achieve a satisfactory picture, adjust the PB FM envelope becomes as flat as possible.

Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

1. Connect the oscilloscope to TP301 (C-PB) on the Main CBA. Use TP504 (RF-SW) as a trigger.
2. Playback the Gray Scale on the Alignment Tape (FL6NS8). Set the Tracking Control Circuit to the preset position by pressing CH UP button and then “PLAY” button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
4. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
5. When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.

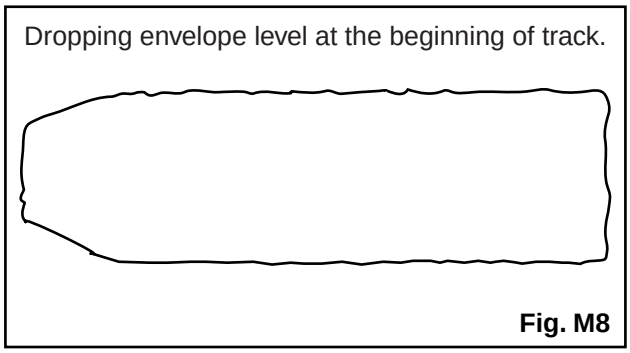


Fig. M8

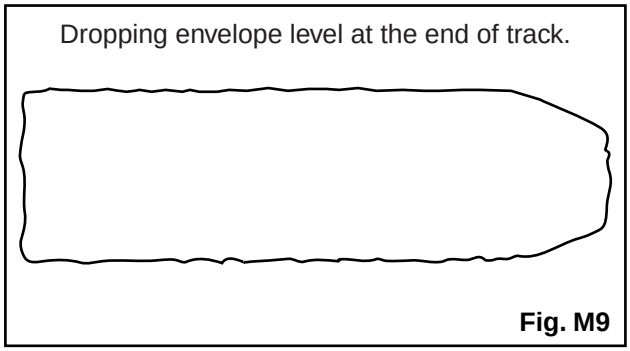


Fig. M9

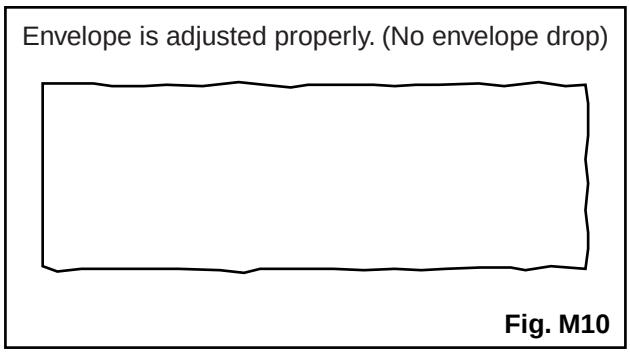


Fig. M10

Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the “X Value Alignment.”

1-D. Azimuth Alignment of Audio/Control/ Erase Head

Purpose:

To correct the Azimuth alignment so that the Audio/ Control/Erase Head meets tape tracks properly.

Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
2. Playback the alignment tape (FL6NS8) and confirm that the audio signal output level is 8kHz.
3. Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)

Note: Upon completion of the adjustment of Azimuth Adj. Screw, check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the “X Value Alignment.”

1-E. Checking and Alignment of Tape Path during reversing

Purpose:

To make sure that the tape path is well stabilized during reversing.

Symptom of Misalignment:

If the tape path is unstable during reversing, the tape will be damaged.

Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Insert a black cassette tape into the tray and set the unit to REV. Then confirm if the tape has been curled up or bent at the Take-up Guide Post[4] or REV Post[5]. (Refer to Fig. M11 and M12.)
2. When the tape has been curled up or bent, turn the alignment screw to adjust the height of REV Post. (Refer to Fig. M11 and M13.)

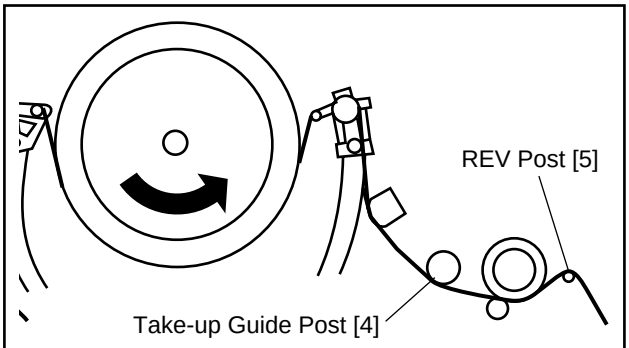


Fig. M11

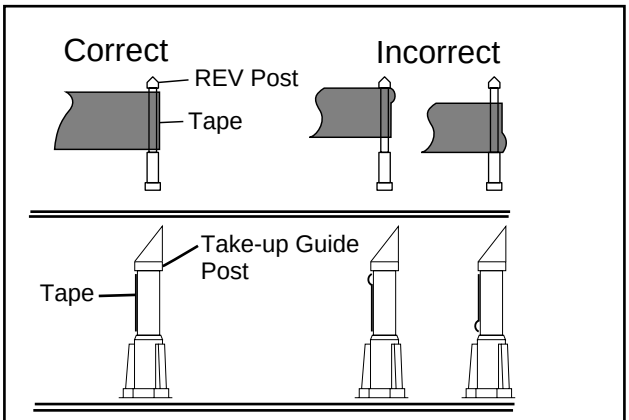


Fig. M12

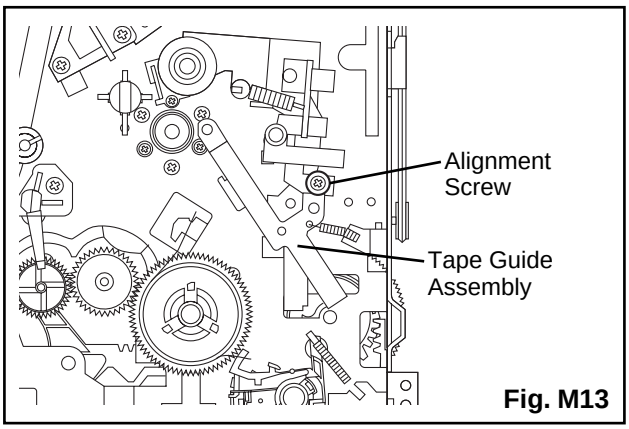


Fig. M13

DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS.)
All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [44] and [45] in Fig. DM1H on page 2-4-3. When reassembling, follow the steps in reverse order.

STEP /LOC. No.	START-ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	T	DM3H	2(S-1)	
[2]	[1]	Cassette Holder Assembly	T	DM4H		
[3]	[2]	Slider (SP)	T	DM5H	(S-1A), *(L-1)	
[4]	[2]	Slider (TU)	T	DM5H	*(L-2)	
[5]	[4]	Lock Lever	T	DM5H	*(L-3), *(P-1)	
[6]	[2]	Cassette Plate	T	DM5H		
[7]	[7]	Cylinder Assembly	T	DM1H, DM6H	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	T	DM1H, DM7H	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	ACE Head Assembly	T	DM1H, DM7H	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	T	DM1H, DM8H-1	*(P-2)	
[11]	[10]	C Door Opener	T	DM1H, DM8H-1	(S-4A), *(L-4)	
[12]	[11]	Pinch Arm (B)	T	DM1H, DM8H-1, DM8H-2	*(P-3)	
[13]	[12]	Pinch Arm (A) Assembly	T	DM1H, DM8H-1, DM8H-2		
[14]	[14]	FE Head	T	DM1H, DM9H	(S-5)	
[15]	[15]	Prism	T	DM1H, DM9H	(S-6)	
[16]	[2]	Slider Shaft	T	DM10H	*(L-5)	
[17]	[16]	C Drive Lever (SP)	T	DM10H		
[18]	[16]	C Drive Lever (TU)	T	DM10H	(S-7), *(P-4)	
[19]	[19]	Capstan Motor	B	DM2H, DM11H	3(S-8), Cap Belt	
[20]	[20]	Clutch Assembly (HI)	B	DM2H, DM12H	(C-1)	
[21]	[20]	Center Gear	B	DM12H		
*[22]	[22]	F Brake Assembly (HI)	B	DM2H, DM12H	*(L-6)	
[23]	[22]	Worm Holder	B	DM2H, DM13H-1	(S-9), *(L-7), *(L-8)	
[24]	[22]	Pulley Assembly (HI)	B	DM2H, DM13H-1		
[25]	[25]	Mode Gear (LM)	B	DM2H, DM13H-1	(C-2)	
[26]	[20],[25]	Mode Lever (HI)	B	DM2H, DM13H-1, DM13H-2	(C-3)	
[27]	[22],[23], [26]	Cam Gear (A) (HI)	B	DM2H, DM13H-1, DM13H-2	(C-4)	(+)Refer to Alignment Sec.Page 2-5-1
[28]	[26]	TR Gear C	B	DM2H, DM13H-1	(C-5)	
[29]	[28]	TR Gear Spring	B	DM13H-1		
[30]	[29]	TR Gear A/B	B	DM13H-1		
[31]	[31]	FF Arm (HI)	B	DM1H, DM14H		
[32]	[26]	Idler Assembly (HI)	B	DM1H, DM14H	*(L-9)	

STEP /LOC. No.	START-ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[33]	[26]	BT Arm	B	DM2H, DM14H	*(P-5)	
[34]	[26]	Loading Arm (SP) Assembly	B	DM2H, DM14H		(+)Refer to Alignment Sec.Page 2-5-1
[35]	[34]	Loading Arm (TU) Assembly	B	DM2H, DM14H		(+)Refer to Alignment Sec.Page 2-5-1
[36]	[16],[26]	M Brake (TU) Assembly (HI)	T	DM1H, DM15H		
[37]	[2],[26]	M Brake (SP) Assembly (HI)	T	DM1H, DM15H	*(P-6)	
[38]	[37]	Tension Lever Assembly	T	DM1H, DM15H		
[39]	[38]	T Lever Holder	T	DM15H	*(L-10)	
[40]	[40]	M Gear (HI)	T	DM1H, DM15H	(C-6)	
[41]	[15],[40]	Sensor Gear (HI)	T	DM1H, DM15H	(C-7)	
[42]	[36],[40]	Reel T	T	DM1H, DM15H		
[43]	[38]	Reel S	T	DM1H, DM15H		
[44]	[34],[38]	Moving Guide S Preparation	T	DM1H, DM16H	(S-11), Slide Plate	
[45]	[35]	Moving Guide T Preparation	T	DM1H, DM16H		
[46]	[19]	TG Post Assembly	T	DM1H, DM16H	*(L-11)	
[47]	[27]	Rack Assembly	R	DM17H		(+)Refer to Alignment Sec.Page 2-5-1
[48]	[47]	F Door Opener	R	DM17H		
[49]	[49]	Cleaner Assembly	T	DM1H, DM6H		
[50]	[49]	CL Post	T	DM6H	*(L-12)	
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)	↓ (6)	↓ (7)

(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.
These numbers are also used as identification (location) No. of parts in the figures.

(2): Indicates the part to start disassembling with in order to disassemble the part in column (1).

(3): Name of the part

(4): Location of the part: T=Top B=Bottom R=Right L=Left

(5): Figure Number

(6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P=Spring, W=Washer, C=Cut Washer, S=Screw, *=Unhook, Unlock, Release, Unplug, or Desolder
e.g., 2(L-2) = two Locking Tabs (L-2).

(7): Adjustment Information for Installation
(+):Refer to Deck Exploded Views for lubrication.

.

*** [22] F Brake Assembly (HI) is not used in 2 head model.**

Top View

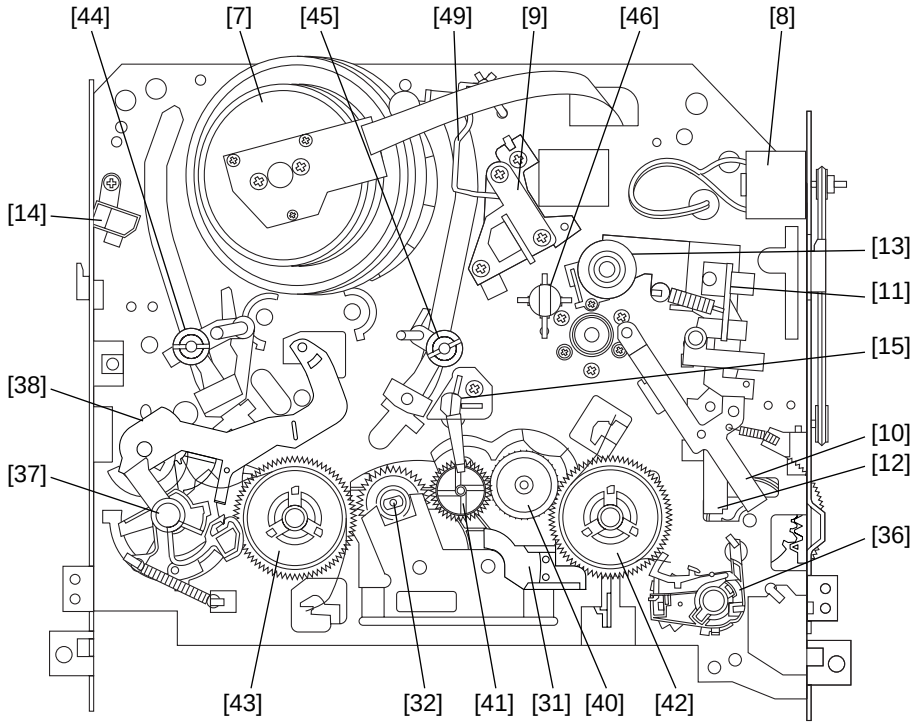


Fig. DM1H

Bottom View

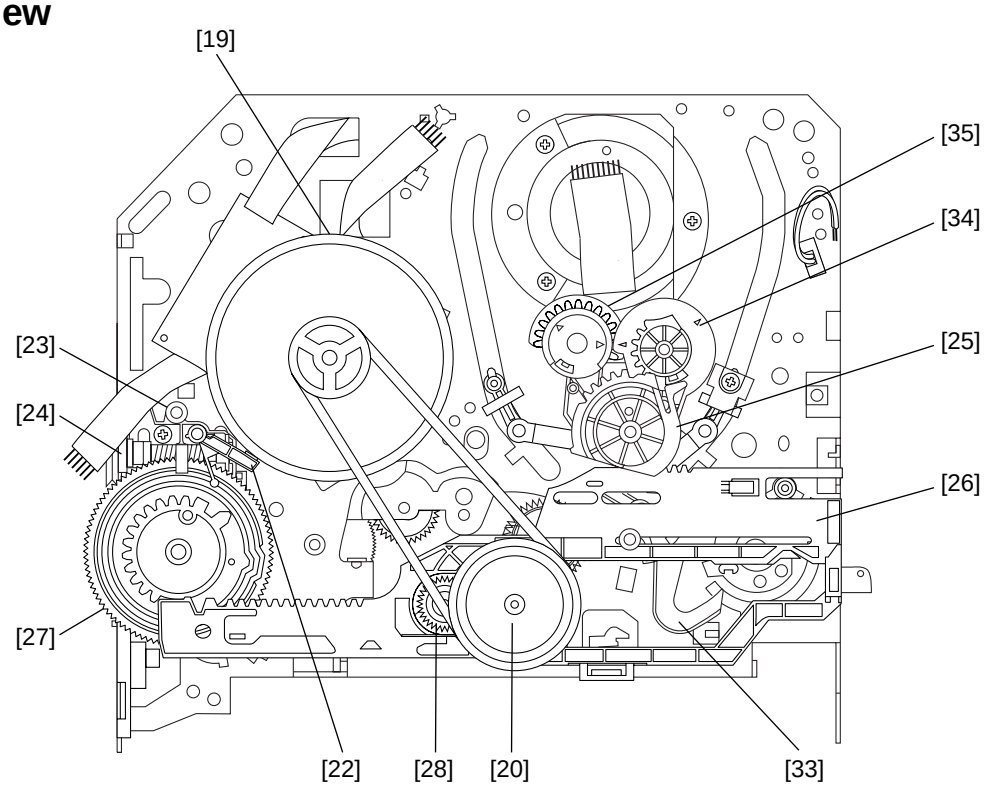


Fig. DM2H

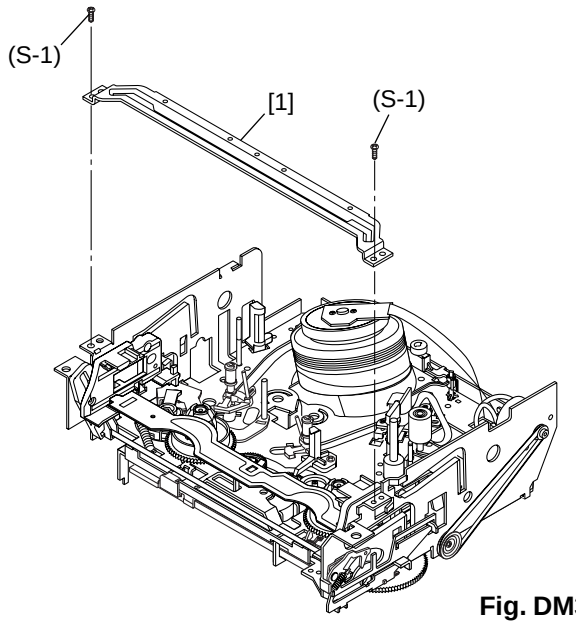
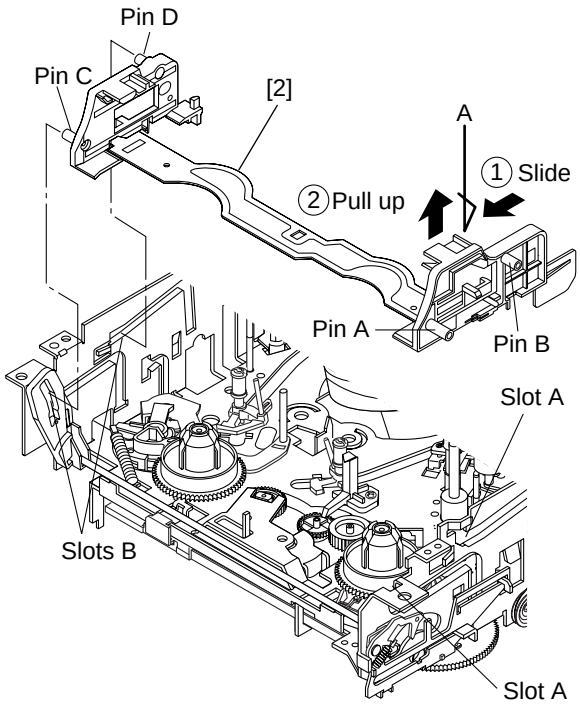


Fig. DM3H



First, while pushing the locking tab as shown in the right, slide and pull up the right side on [2] to release Pin A and Pin B from the slots A.
Then, remove Pin C and Pin D on [2] from the slots B as shown.

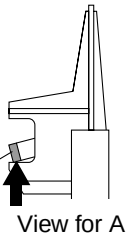
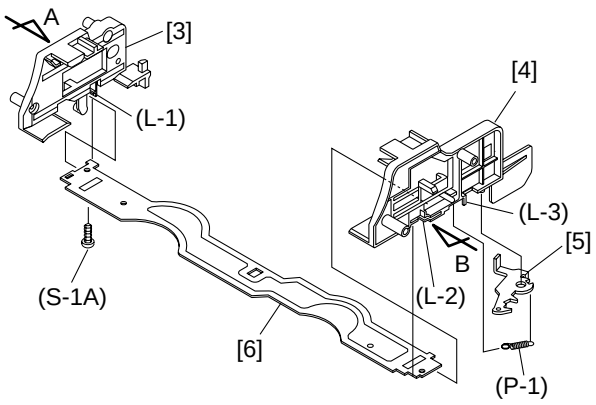
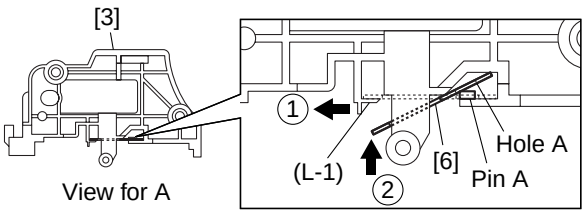


Fig. DM4H



Installation of [3] and [6]

First, insert [6] diagonally in [3] as shown below. Then, install [6] in [3] while pushing (L-1) in a direction of arrow. After installing [6] in [3], confirm that pin A of [3] enters hole A of [6] properly.



Installation of [4] and [6]

Install [6] in [4] while pulling (L-2) in a direction of arrow. After installing [6] in [4], confirm that pin B of [4] enters hole B of [6] properly.

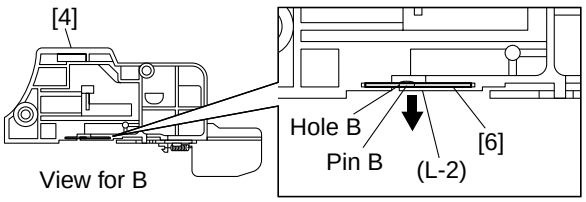


Fig. DM5H

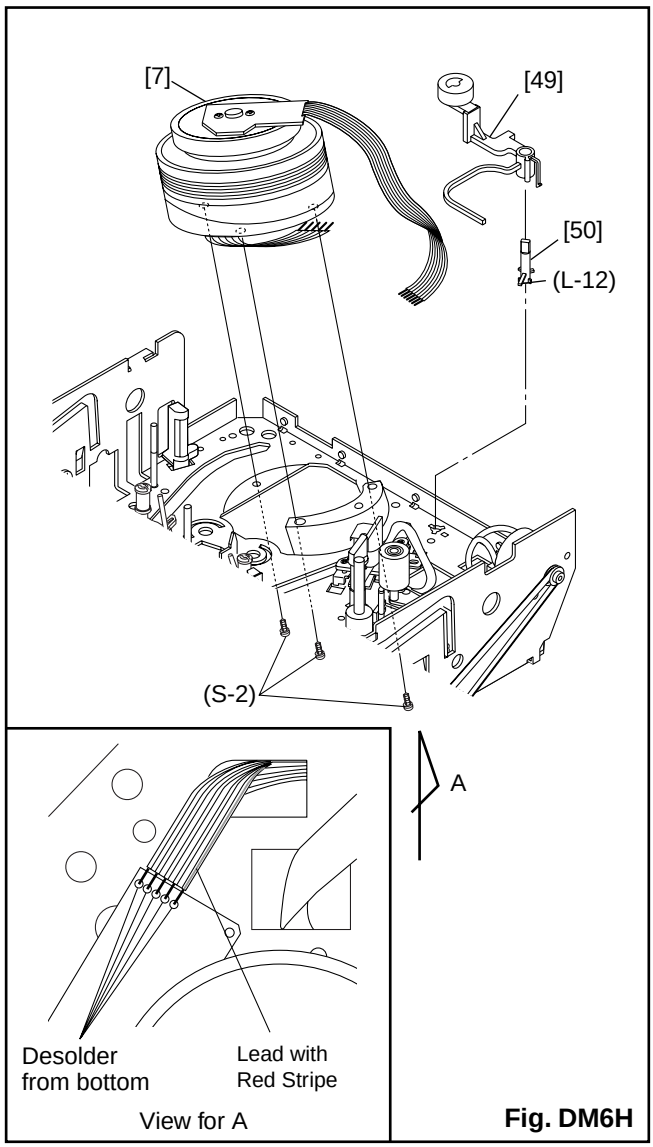


Fig. DM6H

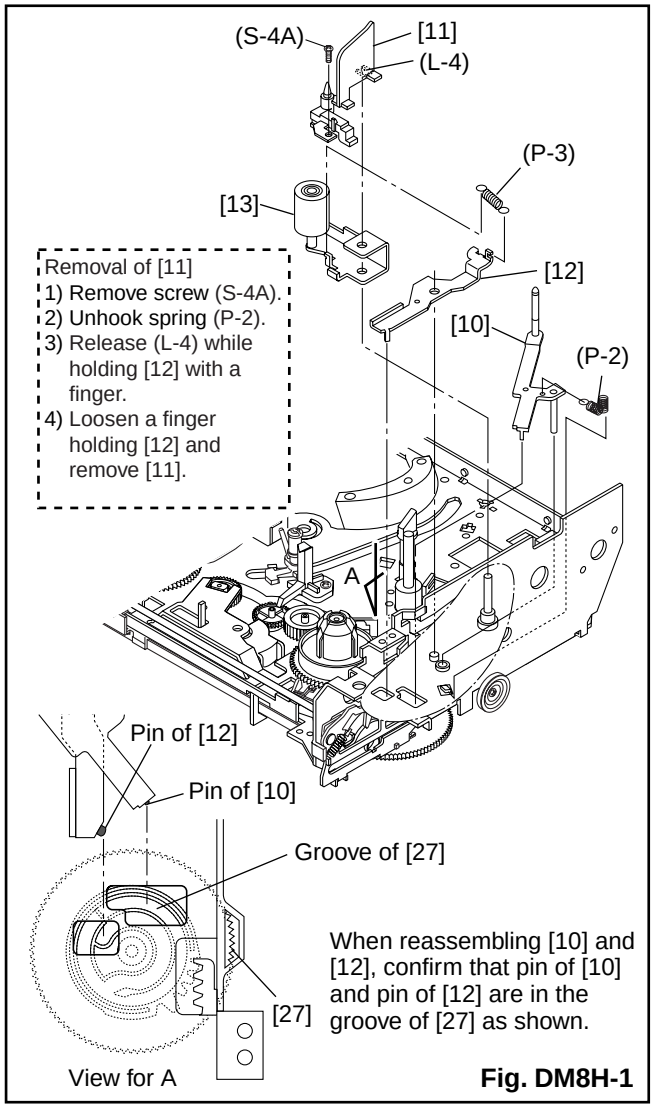


Fig. DM8H-1

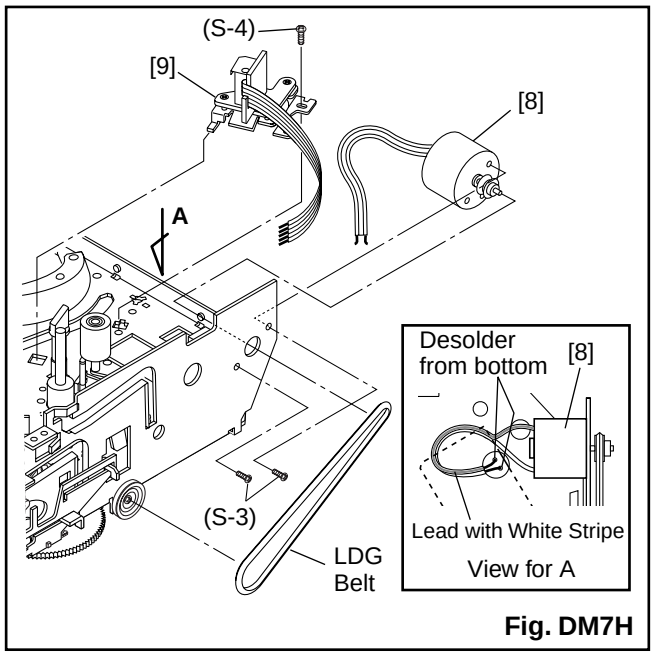


Fig. DM7H

Installation of [13] and [12]

Hook spring (P-3) up to [12] and [13], then install then to the specified position so that [12] will be floated slightly while holding [12] and [13]. (Refer to Fig. A.)

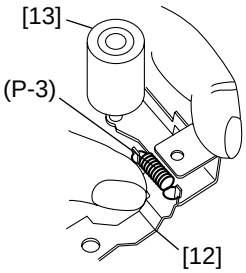


Fig. A

Install pin of [12] in groove of [27]. (Refer to Fig. B.)

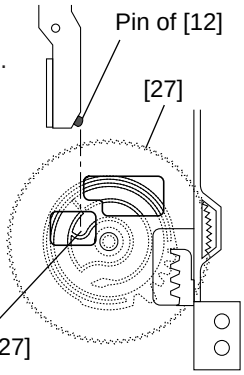


Fig. B (Top view)

Hold [12] and [13] till groove of pin of chassis looks and fit [13] in notch of chassis. Then, turn a few [13] while holding [12]. (Refer to Fig. C.)

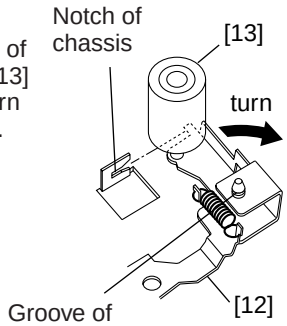


Fig. C

Install [11] and [10] while holding [12]. (Refer to Fig. DM8H-1.)

Fig. DM8H-2

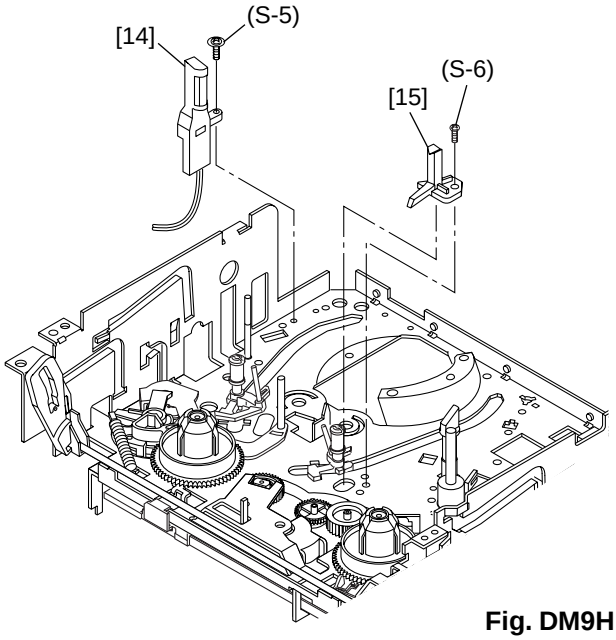


Fig. DM9H

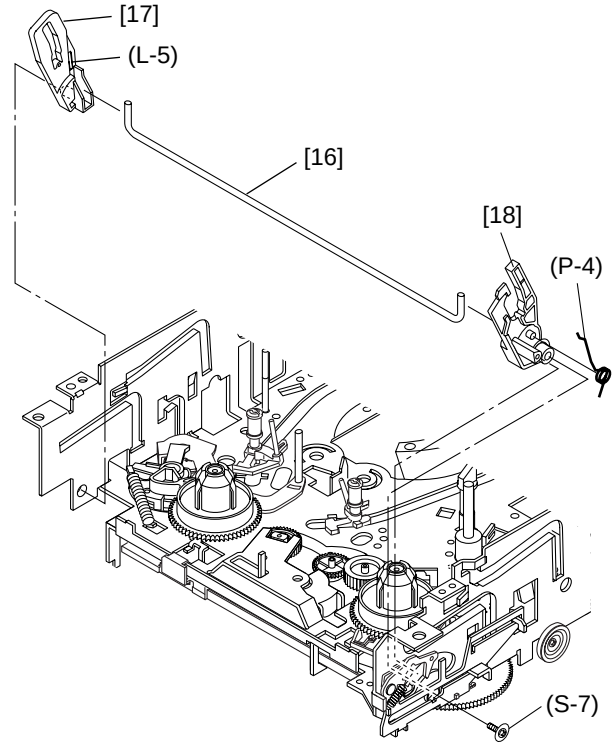
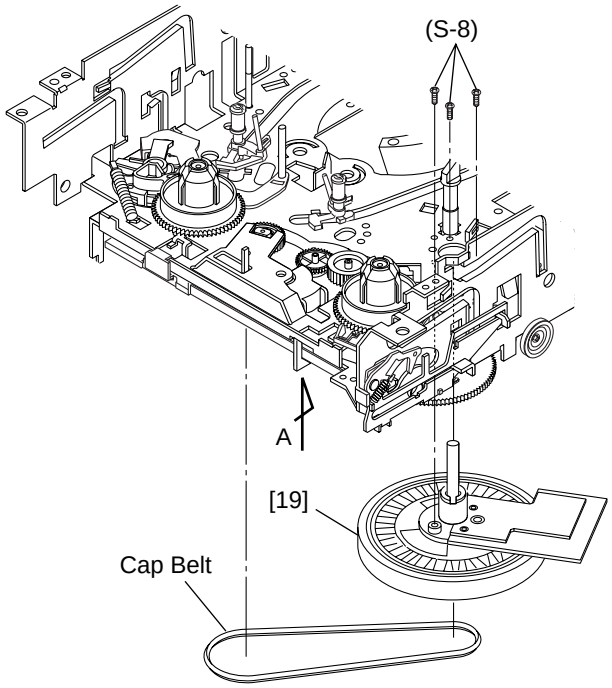


Fig. DM10H



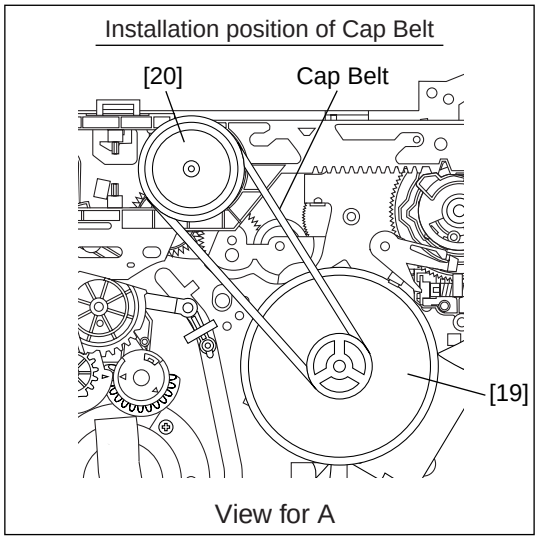


Fig. DM11H

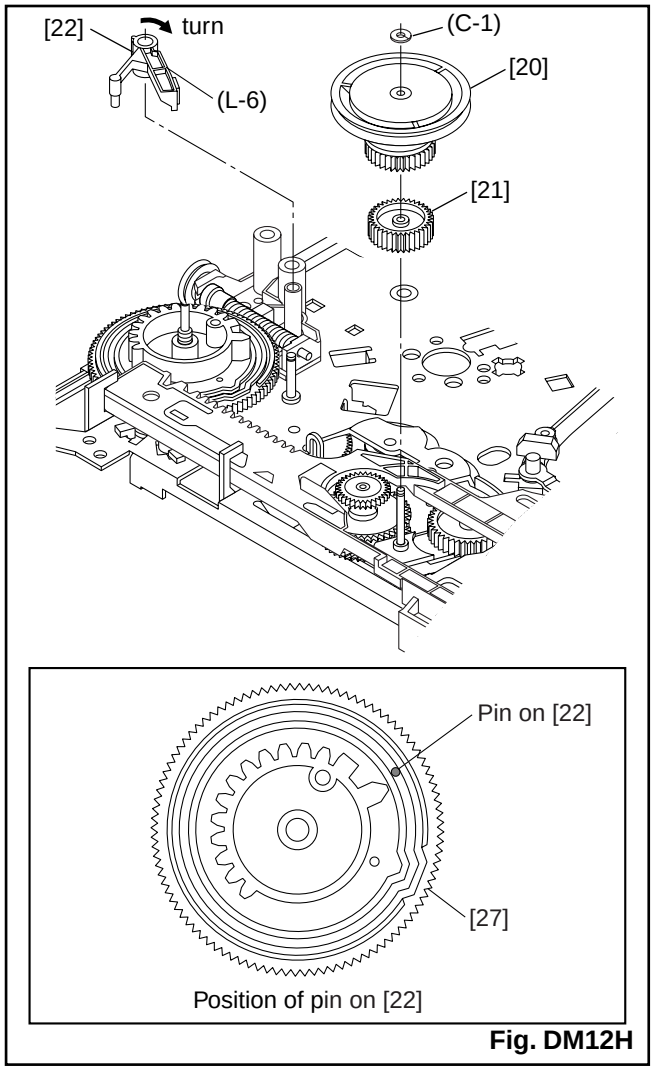


Fig. DM12H

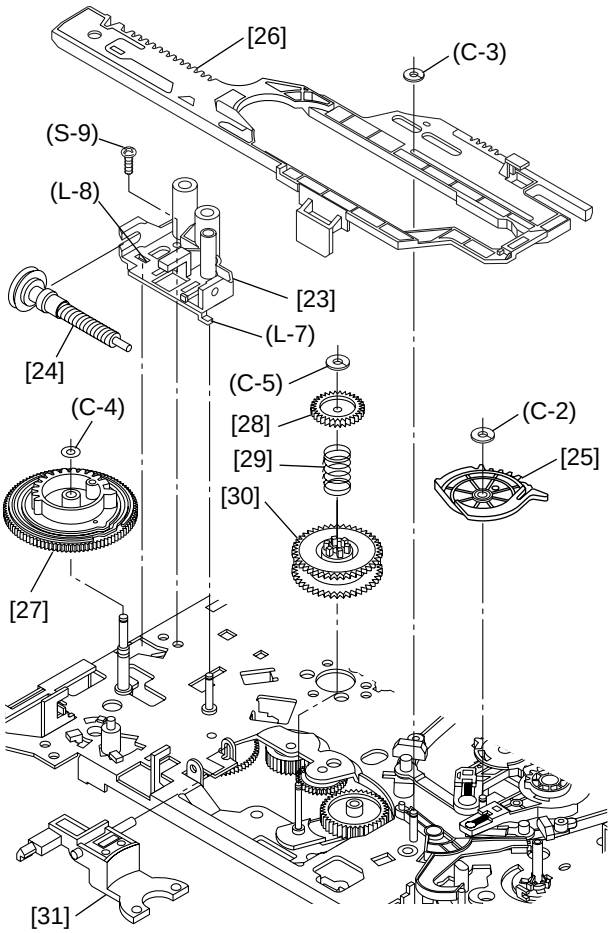
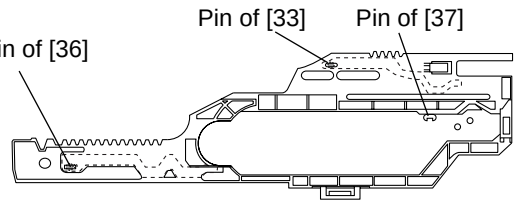
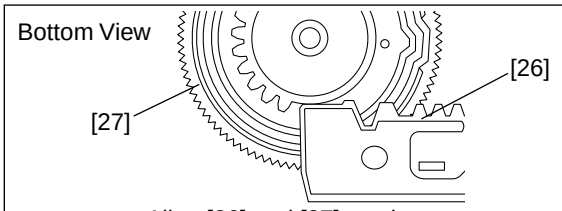


Fig. DM13H-1

Installation of [26]

Position of Mode Lever when installed





Align [26] and [27] as shown.

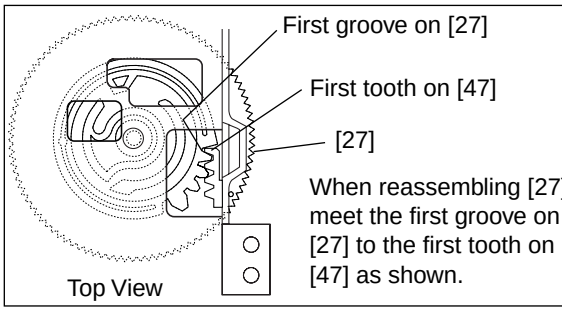

First groove on [27]
First tooth on [47]
[27]
When reassembling [27], meet the first groove on [27] to the first tooth on [47] as shown.
Top View

Fig. DM13H-2

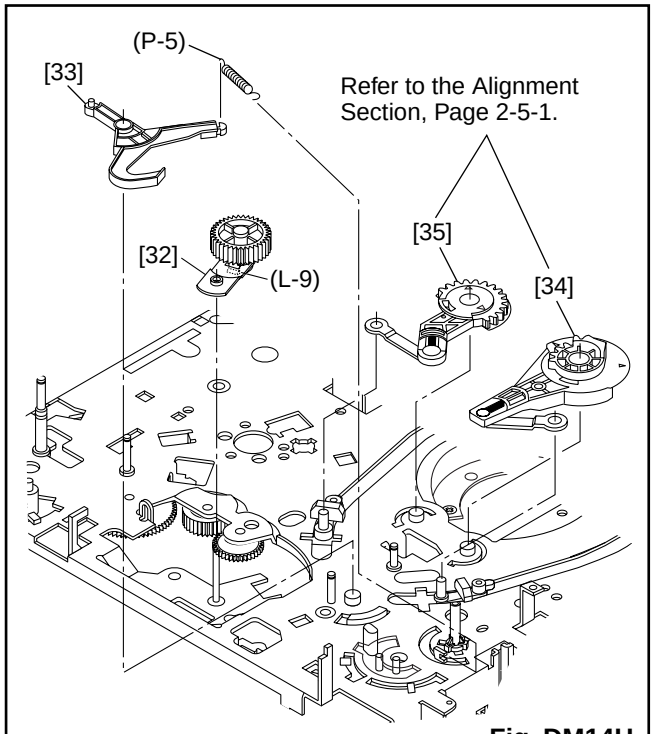


Fig. DM14H

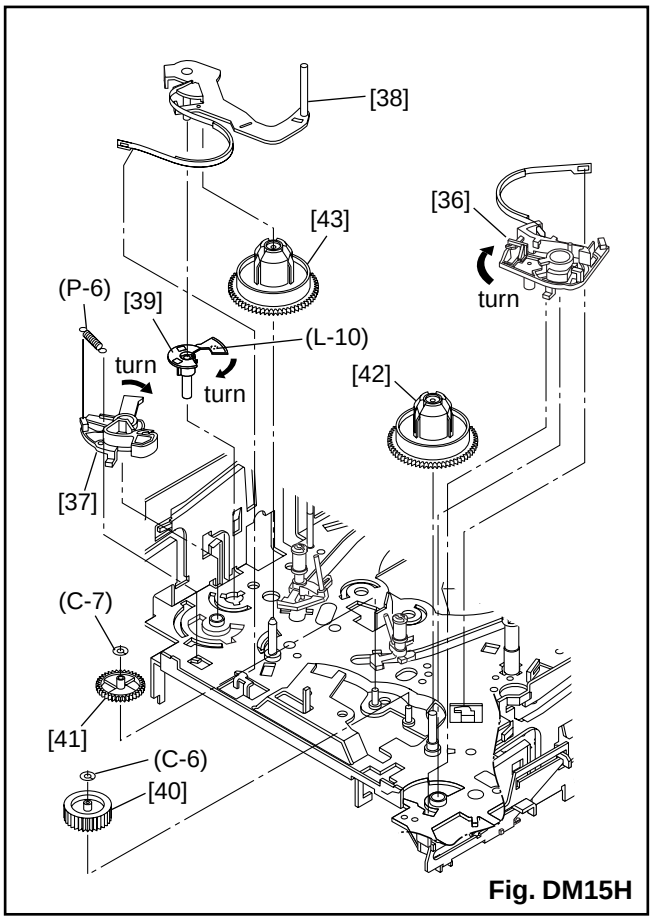


Fig. DM15H

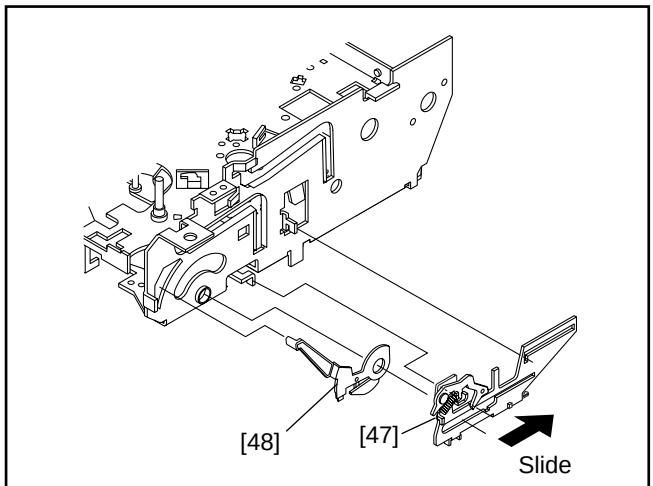


Fig. DM17H

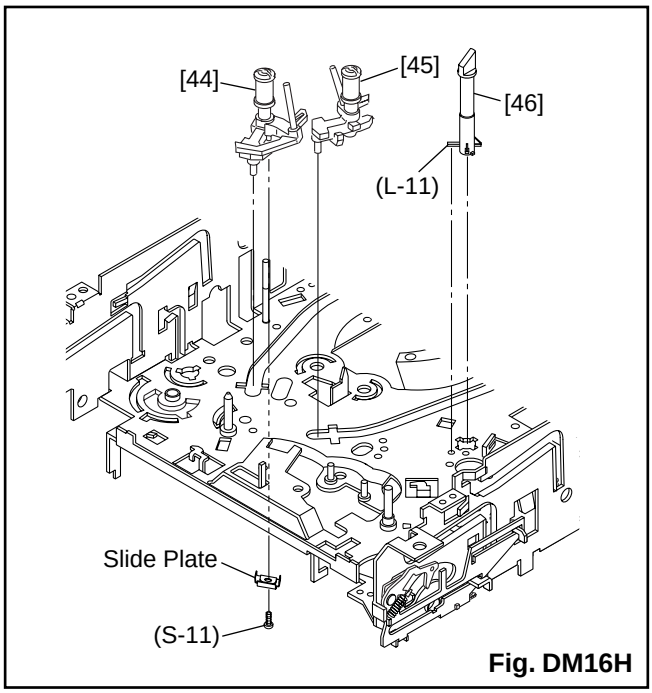


Fig. DM16H

ALIGNMENT PROCEDURES OF MECHANISM

The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.
All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

IMPORTANT:
If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position

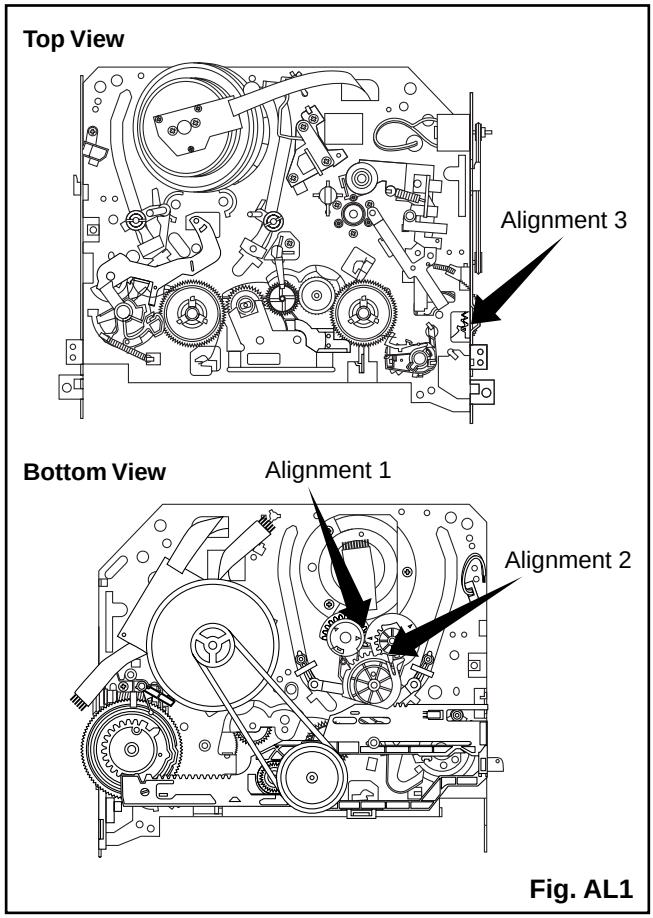


Fig. AL1

Alignment 1

Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

Alignment 2

Mode Gear

Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.

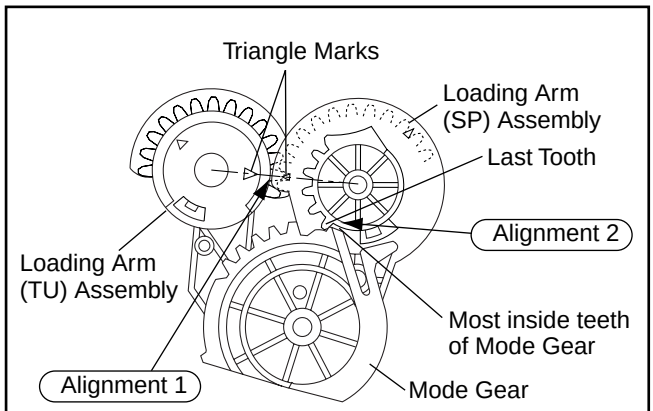


Fig. AL2

Alignment 3

Cam Gear (A) (HI), Rack Assembly

Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) (HI) as shown in Fig. AL3.

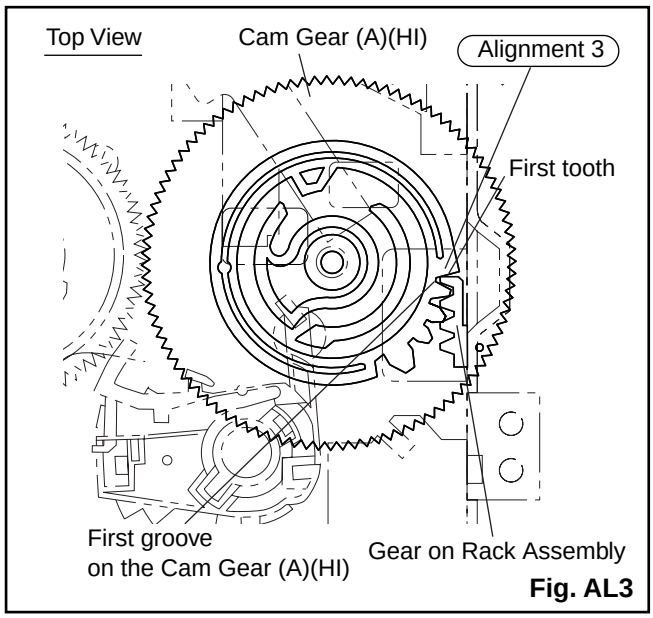
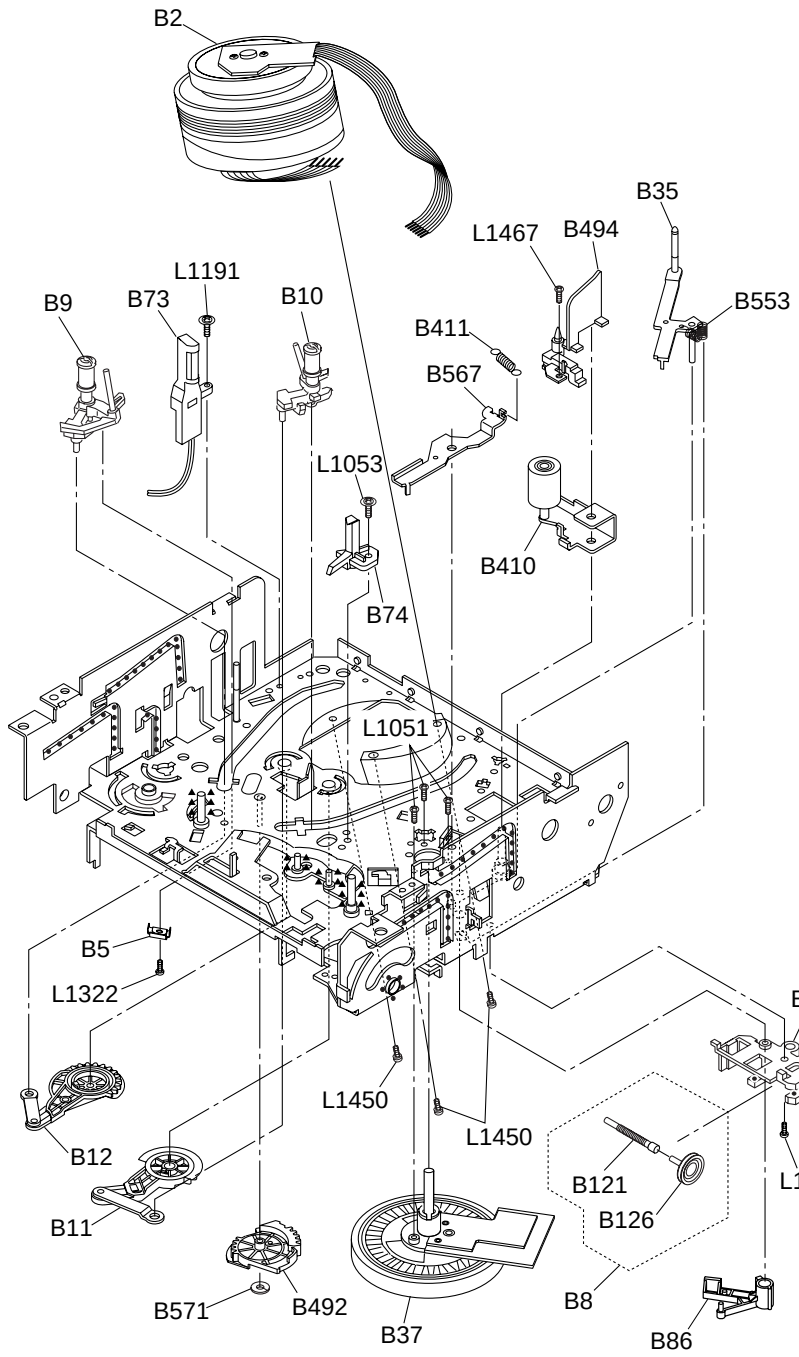


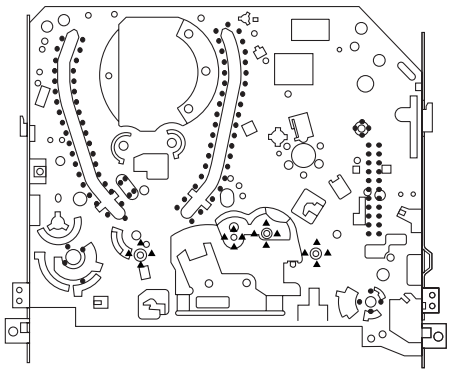
Fig. AL3

DECK EXPLODED VIEWS

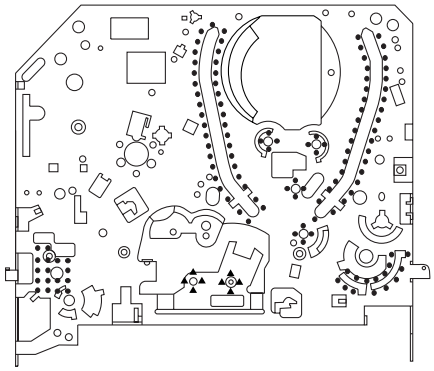
Deck Mechanism View 1

Mark	Description
●●●●●	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲▲	SLIDUS OIL #150





Chassis Assembly
Top View (Lubricating Point)

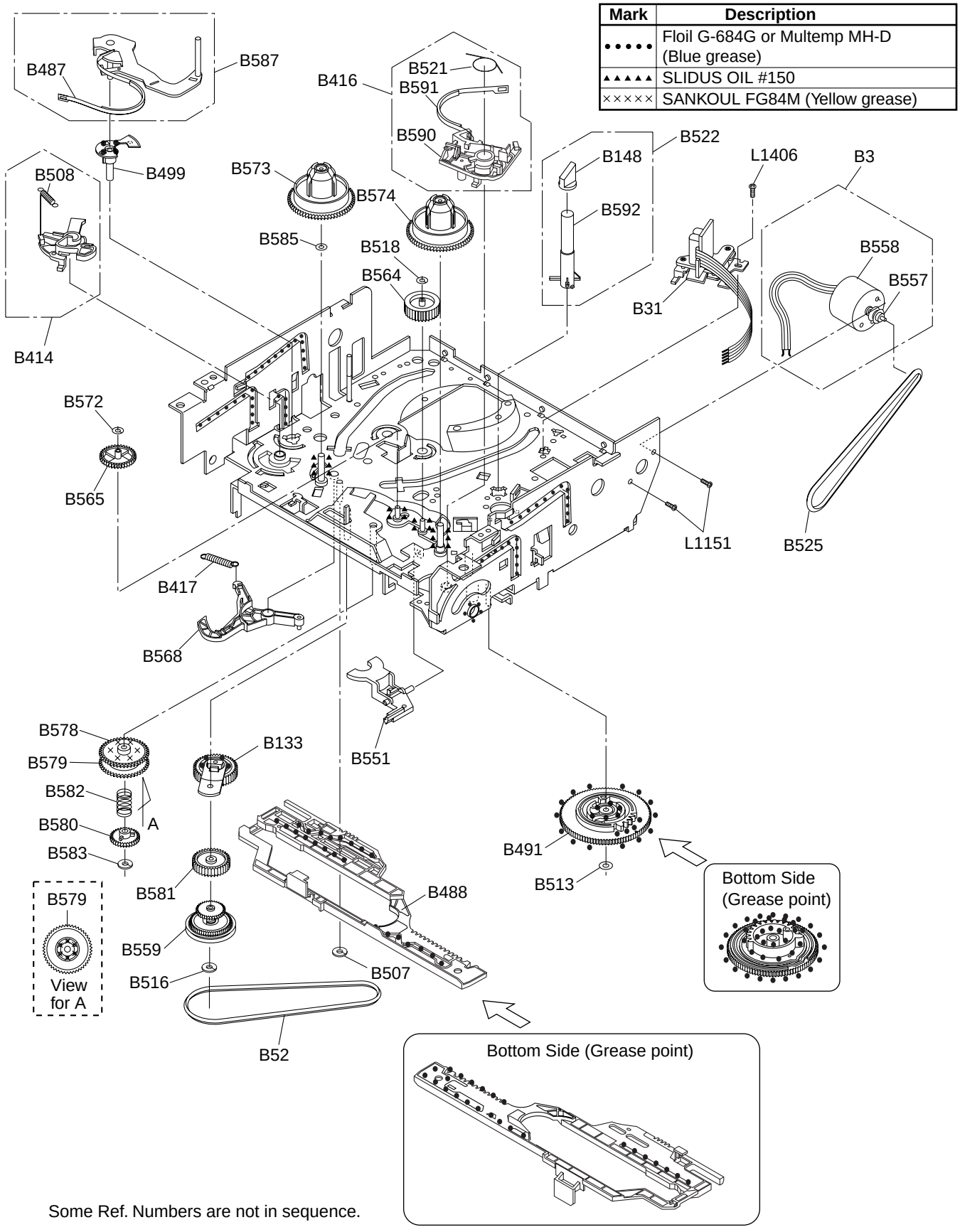


Chassis Assembly
Bottom View (Lubricating Point)

Some Ref. Numbers are not in sequence.

Deck Mechanism View 2

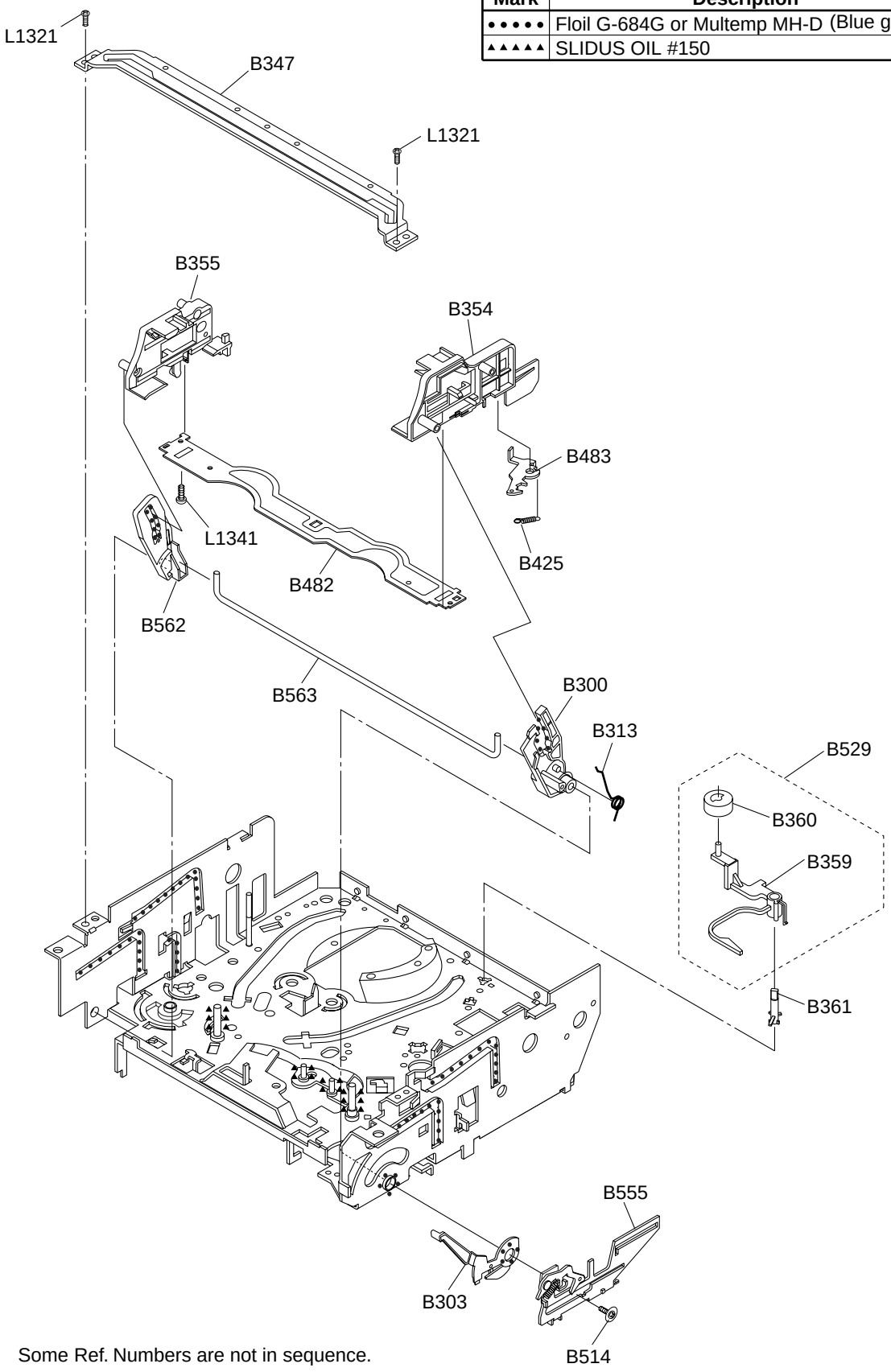
Mark	Description
●●●●●	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲▲	SLIDUS OIL #150
×××××	SANKOUL FG84M (Yellow grease)



Some Ref. Numbers are not in sequence.

Deck Mechanism View 3

Mark	Description
●●●●●	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲▲	SLIDUS OIL #150



Some Ref. Numbers are not in sequence.

DECK PARTS LIST

Comparison Chart of Models and Marks

Model	Mark
DDVR-5505V	A
DDVR-5805	B

Ref. No.	Mark	Description	Part No.
B2	A	CYLINDER ASSEMBLY MK12.5 PAL 4HD	N2347CYL
B2	B	CYLINDER ASSEMBLY MK12.5 PAL 6HD or	N236ACYL
	B	CYLINDER ASSEMBLY MK12.5 PAL 6HD(V)	N236BCYL
B3		LOADING MOTOR ASSEMBLY MK12.5	0VSA14636
B5		SLIDE PLATE MK12.5	0VM416429
B8		PULLEY ASSEMBLY(HI) MK12	0VSA13501
B9		MOVING GUIDE S P.P MK12.5	0VSA14717
B10		MOVING GUIDE T P.P MK12.5	0VSA14639
B11		LOADING ARM(TU) ASSEMBLY MK12	0VSA13300
B12		LOADING ARM(SP) ASSEMBLY MK12	0VSA13299
B31		AC HEAD ASSEMBLY MK12.5	0VSA14841
B35		TAPE GUIDE ARM ASSEMBLY MK12.5	0VSA15014
B37		CAPSTAN MOTOR 288/VCZC1301	N9681CML
B52		CAP BELT MK10	0VM411138
B73		FE HEAD(MK11) MH-131SF11 or	DHVEC01Z0005
		FE HEAD(MK12) VTR-1X2ERS11-155 or	DHVEC01TE005
		FE HEAD(MK12) HVFHP0047A	DHVEC01AL007
B74		PRISM MK10	0VM202870
B86		F BRAKE ASSEMBLY(HI) MK12	0VSA13447
B121		WORM MK12	0VM414091
B126		PULLEY MK12	0VM414330B
B133		IDLER ASSEMBLY(HI) MK12	0VSA13451
B148		TG CAP MK6	0VM407664C
B300		C DRIVE LEVER(TU) MK12	0VM203773
B303		F DOOR OPENER MK12	0VM203751C
B313		C DRIVE SPRING MK12	0VM414145
B347		GUIDE HOLDER A MK10	0VM304920
B354		SLIDER(TU) MK12	0VM101172F
B355		SLIDER(SP) MK12	0VM101182H
B359		CLEANER LEVER MK10	0VM304413
B360		CLEANER ROLLER MK9	0VM410032C
B361		CL POST MK10	0VM411114
B410		PINCH ARM(A) ASSEMBLY(6) MK12.5 or	0VSA14935
		PINCH ARM(A) ASSEMBLY(5) MK12	0VSA13788
B411		PINCH SPRING MK12	0VM414644
B414		M BRAKE(SP) ASSEMBLY(HI) MK12	0VSA13655
B416		M BRAKE(TU) ASSEMBLY(HI) MK12	0VSA13449
B417		TENSION SPG(3002645) MK12.5	0VM414221G
B425		LOCK LEVER SPRING MK10	0VM411110
B482		CASSETTE PLATE MK12	0VM203749
B483		LOCK LEVER MK12	0VM414095
B487		BAND BRAKE(SP) MK12	0VM305723
B488		MODE LEVER(HI) MK12 or	0VM101175J
		MODE LEVER(HI) MK12.5	0VM101352
B491		CAM GEAR(A)(HI) MK12	0VM101176
B492		MODE GEAR(LM) MK12	0VM204236
B494		C DOOR OPENER MK12	0VM305719
B499		T LEVER HOLDER MK12	0VM305729
B501		WORM HOLDER MK12 or	0VM203767
		WORM HOLDER(R) MK12	0VM204324
B507		REEL WASHER MK9 5*2.1*0.5	0VM410058
B508		S BRAKE SPRING(HI) MK12	0VM414899
B513		P.S.W F 6*2.55*0.5	0VM402629A
B514		SCREW RACK MK10	0VM411535
B516		REEL WASHER MK9 5*2.1*0.5	0VM410058
B518		P.S.W CUT 1.6X4.0X0.5T	0VM408485A
B521		REV BRAKE SPG(HI) MK12	0VM414943
B522		TG POST ASSEMBLY MK10	0VSA11012
B525		LDG BELT MK11	0VM412804
B529		CLEANER ASSEMBLY MK10	0VSA11161
B551		FF ARM(HI) MK12	0VM306183
B553		REV SPRING MK11	0VM412555
B555		RACK ASSEMBLY MK12	0VSA13289
B557		MOTER PULLEY U5	0VM403205
B558		LOADING MOTOR M31E-1 R-14 7401 or	MMDZB12MM007
		LOADING MOTOR M31E-1 R-14 7402	MMDZB12MM008
B559		CLUTCH ASSEMBLY(HI) MK12	0VSA13450
B562		C DRIVE LEVER(SP) MK12	0VM203772
B563		SLIDER SHAFT MK12	0VM305762
B564		M GEAR(HI) MK12	0VM305755
B565		SENSOR GEAR(HI) MK12	0VM305756
B567		PINCH ARM(B) MK12	0VM305718
B568		BT ARM MK12	0VM305728
B571		P.S.W CUT 1.6X4.0X0.5T	0VM408485A
B572		P.S.W CUT 1.6X4.0X0.5T	0VM408485A
B573		REEL S MK11	0VM203436
B574		REEL T MK10	0VM202872C
B578		TR GEAR A MK10	0VM304440
B579		TR GEAR B MK12	0VM305900
B580		TR GEAR C MK12	0VM305743A
B581		CENTER GEAR MK11	0VM305081
B582		TR GEAR SPRING MK10	0VM411187C
B583		CAM WASHER MK12	0VM414741
B585		PSW(317505) MK11	0VM413663
B587		TENSION LEVER ASSEMBLY MK12	0VSA13279
B590		BRAKE ARM(TU) MK12	0VM203752E
B591		BAND BRAKE(TU) MK12	0VM305724C
B592		TG POST MK10	0VM411108E
L1051		SCREW, B-TIGHT M2.6X6 PAN HEAD+	GPMB9060
L1053		SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080
L1151		SCREW, SEMS M2.6X4 PAN HEAD+	CPM39040
L1191		SCREW, S-TIGHT M2.6X8 WASHER HEAD+	GCMS9080
L1321		SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
L1322		SCREW, B-TIGHT M2.3X4 BIND HEAD+	GBMBY040
L1341		SCREW, P-TIGHT M2X6 PAN HEAD+	GPMP2060
L1406		AC HEAD SCREW MK9	0VM410964
L1450		SCREW, SEMS M2.6X5 PAN HEAD+	CPM39050
L1466		SCREW, S-TIGHT M2.6X6 BIND HEAD+	GBMS9060
L1467		SCREW M2.6X5 WASHER HEAD+	SCM39050

DDVR-5505V/DDVR-5805
H9779ED/H97H0ED
2004-09-14